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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6403	16264	26424	2	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
6403	16264	26425	2	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
471	10414	20233	14.17	8.0E-87	X62245.1	NT	O. curticulus mRNA for elongation factor 1 alpha
2250	12134	22031	2.74	7.0E-87	BF063211.1	EST_HUMAN	7185702.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2250	12134	22032	2.74	7.0E-87	BF063211.1	EST_HUMAN	7185702.x1 NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6763	16642	26829	2.67	7.0E-87	BF352776.1	EST_HUMAN	IL3-HT0619-060700-198-D10 HT0619 Homo sapiens cDNA
7794	17644	27877	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
7794	17644	27878	3.38	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8264	18144	28384	10.88	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
8264	18144	28385	10.88	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
3482	13398	23203	0.87	6.0E-87	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5868	15774	25893	1.73	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
8107	17997		3.52	6.0E-87	11432444	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC63102), mRNA
1142	11056	20898	1.69	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis 1 Homo sapiens cDNA 5' end
9450	11056	20898	1.53	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis 1 Homo sapiens cDNA 5' end
950	10874	20721	1.33	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1155	11068	20912	10.54	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1411	11316	21179	0.86	4.0E-87	R78133.1	EST_HUMAN	y80f10.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145579 5' similar to contains Alu repetitive element
1985	11878	21771	0.92	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
2372	12252	22142	1.07	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
2372	12252	22143	1.07	4.0E-87	7706299	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
3419	13336	23140	2.19	4.0E-87	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4) mRNA
5343	15264	25090	6.47	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLLOCATION VARIANT 2)
5686	15595	25696	4.36	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
8505	18378	28644	4.35	4.0E-87	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
8994	18798	29091	2.13	4.0E-87	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (hsc70) (H. sapiens) (LOC63184), mRNA
9695	19246		14.77	4.0E-87	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RX1), mRNA
2749	12611	22502	2.99	2.0E-87	4885420	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4) mRNA
3717	13629	23414	0.89	2.0E-87	AU116935.1	EST_HUMAN	AU116935 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4826	14708	24492	1.17	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150900-552-h08 TN0038 Homo sapiens cDNA

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4880	14760	24537	0.8	2.0E-87	BE175478.1	EST_HUMAN	RC5-H10580-200300-031-G04 HT0580 Homo sapiens cDNA
5473	15393	25457	7.87	2.0E-87	BE734190.1	EST_HUMAN	60156904F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5473	15393	25458	7.87	2.0E-87	BE734190.1	EST_HUMAN	60156904F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843730 5'
5819	15726		6.27	2.0E-87	BE567193.1	EST_HUMAN	601341383F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3683348 5'
6256	16122	26275	1.51	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
6407	16288	26430	32.21	2.0E-87	N48128.1	EST_HUMAN	yv21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5'
6526	16385	26564	28.31	2.0E-87	N48128.1	EST_HUMAN	yv21e07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243396 5'
6992	16771	26966	3.81	2.0E-87	X92851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
7634	17485		5.11	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'
1165	12645		2.33	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1413	11318	21181	0.94	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA
1413	11318	21182	0.94	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0265-141099-001-g04 CT0265 Homo sapiens cDNA
3649	13563	23349	3.18	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3673	13587	23374	2.47	1.0E-87	4758827	NT	Homo sapiens neuraxin III (NRXN3) mRNA
5057	14927	24699	1.04	1.0E-87	U50949.1	NT	Rattus norvegicus taste bud receptor protein TB 641 (TB 641) gene, complete cds
5774	15681	25788	3.39	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
5774	15681	25789	3.39	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
6376	16238	26398	1.6	1.0E-87	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
6724	16604	26793	13.13	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
7165	17042	27233	1.19	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
7165	17042	27234	1.19	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
7554	17405	27620	2.77	1.0E-87	BE818183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
7554	17405	27621	2.77	1.0E-87	BE818183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
8114	18003	28249	2.06	1.0E-87	5729867	NT	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
8367	18244		1.78	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
9539	19761		2.02	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
1030	11006	20847	7.39	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	11234	21090	2	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	11234	21091	2	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
3574	13488	23279	1.13	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4172	14072	23847	2.64	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4172	14072	23848	2.64	9.0E-88	X91929.1	NT	H. sapiens ECE-1 gene (exon 9)
4934	14812	24580	1.23	9.0E-88	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)

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7216	17093	27284	3.69	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1787	11685		1.19	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2602	12470	22366	3	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
2970	12897	22696	0.92	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
2978	12905	22704	0.94	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
2978	12905	22705	0.94	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3343	13263		2.31	5.0E-88	AL693217.1	EST_HUMAN	wd68h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element; contains element MER22 MER22 repetitive element;
3491	13407	23212	0.91	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
4631	14519	24310	0.87	5.0E-88	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
6059	16042	26185	2.64	5.0E-88	H10832.1	EST_HUMAN	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
6627	16507	26694	1.84	5.0E-88	AL163284.2	NT	ym06b10.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:47129 5'
1307	11214	21070	1.64	4.0E-88	BF091229.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
1307	11214	21071	1.64	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
6295	16159	26316	1.93	4.0E-88	11416585	NT	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
8281	18160	28402	2.84	4.0E-88	4502694	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8780	18595	28883	2.1	4.0E-88	7661947	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
8780	18595	28884	2.1	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	10647	20475	0.93	3.0E-88	11545800	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
1770	11669		4.77	3.0E-88	4508020	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
2918	12845	22647	4.31	3.0E-88	N66951.1	EST_HUMAN	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
4147	14047	23819	1.21	3.0E-88	4501912	NT	za48f12.s1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:295823 3'
4147	14047	23820	1.21	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4380	14276		3.17	3.0E-88	11429300	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
5242	15166	24937	4.09	3.0E-88	11429567	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5429	15349	25403	3.84	3.0E-88	9986888	NT	Homo sapiens valosin-containing protein (VOP), mRNA
5498	15417	25480	3.39	3.0E-88	11420697	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
6204	15984	26098	12.03	3.0E-88	AF279265.1	NT	Homo sapiens v-rat simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6452	16313	26479	6.66	3.0E-88	11436400	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
							Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
6620	16500	26688	8.52	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA

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6769	16848	28636	1.41	3.0E-88	AF034374.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis protein C mRNA, complete cds
7427	16440	26626	2.12	3.0E-88	11526262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9286	18988		4.78	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1020	10938	20780	1.42	2.0E-88	7305198	NT	Homo sapiens Caldesin, presenilin-binding protein, EF hand transcription factor (CSEN), mRNA
1607	11512	21372	0.93	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1716	11617	21486	4.19	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
4328	14225	24007	1.93	2.0E-88	5031666	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5604	15518	25597	4.98	1.0E-88	AW139565.1	EST_HUMAN	UI-H-B11-aea-d-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
5604	15518	25598	4.98	1.0E-88	AW139565.1	EST_HUMAN	UI-H-B11-aea-d-04-0-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718760 3'
6004	15909	26033	17.59	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6004	15909	26034	17.59	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6263	16128	26282	4.06	1.0E-88	AA488981.1	EST_HUMAN	aa54a11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:B0272.2 CE00851
7524	17375	27584	2.95	1.0E-88	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8742	17891	28135	2.27	1.0E-88	AA991479.1	EST_HUMAN	os91g03.s1 NCI_CGAP_G03 Homo sapiens cDNA clone IMAGE:1612756 3' similar to gb:M16342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
9502	19117		2.98	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8321	18198	28447	4.12	9.0E-89	11421238	NT	Homo sapiens transgelin 2 (TAGLN2), mRNA
2705	12568	22459	1.41	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
426	10371	20194	1.35	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
426	10371	20195	1.35	7.0E-89	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
4785	14670	24457	2.94	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B) mRNA
4847	14728	24511	5.14	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E246 5'
5334	15254	25076	1.35	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5334	15254	25077	1.35	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6428	16289	26450	1.78	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
8006	17856	28097	1.42	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
8006	17856	28098	1.42	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
8012	17862	28107	1.17	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8012	17862	28108	1.17	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
9920	19393		3.07	7.0E-89	U87927.1	NT	Human aconitate hydratase (ACO2) gene, exon 2
1006	10924	20768	1.07	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (IMMT), mRNA
2166	12053	21954	1.12	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4) mRNA

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2383	12263	22154	1.97	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
2383	12263	22155	1.97	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3) mRNA
3480	13396	23201	0.84	6.0E-89	7661817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4537	14430	24211	3.5	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4537	14430	24212	3.5	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5007	14881	24646	2.77	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5007	14881	24647	2.77	5.0E-89	BE244323.1	EST_HUMAN	TCBAP2E0383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
6477	16336	26503	1.33	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
2847	12775	22563	1.61	3.0E-89	AW976181.1	EST_HUMAN	EST1388290 MAGE resequences, MAGN Homo sapiens cDNA
9688	19241	25215	1.92	3.0E-89	AV705749.1	EST_HUMAN	AV705749 ADB Homo sapiens cDNA clone ADBBGA01 5'
121	10348	20175	1.46	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
121	10348	20176	1.46	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
402	10348	20175	0.91	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
402	10348	20176	0.91	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
519	10461	20272	0.83	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2852	12780	22569	2.01	2.0E-89	AI222095.1	EST_HUMAN	qg96c08.x1 Soares NFL T. GBC. S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
4053	13955	23731	1.45	2.0E-89	AF089897.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
4061	13963	23740	6.18	2.0E-89	X58742.1	NT	Homo sapiens topoisomerase-related function protein (TRF4-2) mRNA, partial cds
4061	13963	23741	6.18	2.0E-89	X58742.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4396	14292	24076	1.14	2.0E-89	AJ007378.1	NT	H. sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
5368	15288	25123	2.5	2.0E-89	AB007546.1	NT	Homo sapiens GGT gene, exon 5
5538	15455	25525	1.6	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6520	16379	26557	4.93	2.0E-89	U81004.1	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
6630	16510	26699	3.73	2.0E-89	11428801	NT	Human GT24 (GT24) mRNA, partial cds
8680	18568	28851	2.63	2.0E-89	11434411	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
8854	18666	28953	4.87	2.0E-89	11433673	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
8955	18762	29055	2.24	2.0E-89	U10692.1	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
							Human MAGE-7 antigen (MAGE7) pseudogene, complete cds

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Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8860	18672	28960	6.12	1.0E-89	BF196052.1	EST_HUMAN	hr1d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
8860	18672	28961	6.12	1.0E-89	BF196052.1	EST_HUMAN	hr1d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN;
6789	16668	26859	1.16	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
6789	16668	26860	1.16	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1047	10965	20806	1.62	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1048	10965	20806	2.93	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1308	12690	21072	5.28	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1308	12690	21073	5.28	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
818	10746		2.65	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
6907	16785		1.91	7.0E-90	AA782977.1	EST_HUMAN	ai63d08.s1 Soares testis_NHT Homo sapiens cDNA clone 1375503 3'
7183	17060	27260	1.88	7.0E-90	BE962625.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
7183	17060	27251	1.88	7.0E-90	BE962625.2	EST_HUMAN	601655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
7833	17683	27927	1.98	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
7833	17683	27928	1.98	7.0E-90	H68849.1	EST_HUMAN	yr86e04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC;
3029	12957	22749	1.14	6.0E-90	X91926.1	NT	H.sapiens ECE-1 gene (exon 6)
3029	12957	22750	1.14	6.0E-90	X91926.1	NT	H.sapiens ECE-1 gene (exon 6)
4134	14034	23809	7.33	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4134	14034	23810	7.33	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5641	15554	25646	3.54	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
5641	15554	25647	3.54	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
6846	16725	26918	3.25	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
6846	16725	26919	3.25	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 3 (ITPR3) mRNA
149	10123		10.5	5.0E-90	AB035344.1	NT	Homo sapiens TClb gene, exon 1-10b
1175	11087	20831	1.55	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
2508	12382	22273	2.19	5.0E-90	AF114487.1	NT	Homo sapiens intersecin long isoform (ITSN) mRNA, complete cds
4440	14334	24124	3.08	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4507	14400	24186	1.07	5.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:461442 3'
4507	14400	24187	1.07	5.0E-90	AA705222.1	EST_HUMAN	z82g10.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:461442 3'
4571	14463	24251	0.98	5.0E-90	AL135549.1	EST_HUMAN	DKFZp762P1616_r1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762P1616 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5433	15353	25409	2.52	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5523	15353	25409	2.13	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6283	16147	26302	2.26	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6283	16147	26303	2.26	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6464	16323	26489	7.93	5.0E-90	4557258	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
6825	16704	26899	4.66	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
7581	17432	27646	1.24	5.0E-90	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7968	17818	28060	15.41	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
9744	19306		2.16	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
9789	19299		2.37	5.0E-90	AF233366.1	EST_HUMAN	ar78h05.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2128761 3'
299	10263	20083	1.85	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
299	10263	20084	1.85	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1070	10986	20829	2.94	4.0E-90	4505316	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1663	11565	21432	9.22	4.0E-90	X99033.1	NT	H. sapiens gene encoding discoidin receptor tyrosine kinase, exon 16
4557	14449	24235	4.07	4.0E-90	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4691	14577	24372	1.97	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4713	14599	24385	1.9	4.0E-90	M95967.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 8
8901	18709	29004	103.82	3.0E-90	BE563883.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
207	10178	19995	4.28	2.0E-90	BE537913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1156	11069	20913	3.65	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1156	11069	20914	3.65	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3771	13683	23465	2.81	2.0E-90	AI138213.1	EST_HUMAN	qc54cd02.x1 Soares placenta 8w6weeks 2NBHP809W Homo sapiens cDNA clone IMAGE:1713410 3'
4588	14476	24264	1.13	2.0E-90	AB006627.1	NT	similar to SW.OLF3_MOUSE P23275 OLFACTORY RECEPTOR OR3. ;
4820	14703	24488	8.33	2.0E-90	5729855	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5534	15451	25519	4.34	2.0E-90	AW672886.1	EST_HUMAN	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
7638	17489	27708	2.9	2.0E-90	11427320	NT	ba49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2899881 5' similar to TR:O75208 O75208 HYPOTHETICAL 35.5 KD PROTEIN. ;
7638	17489	27709	2.9	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
7722	17572	27796	1.56	2.0E-90	AU118985.1	EST_HUMAN	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7722	17572	27797	1.56	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
8765	17914	28159	49.27	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
275	10241	20060	3.39	1.0E-90	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
370	12639	20148	1.21	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
371	12639	20148	1.04	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
680	10613	20435	2.03	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
680	10613	20436	2.03	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	10645	20472	7.71	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	10645	20473	7.71	1.0E-90	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1094	11010		2.45	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1284	11192	21044	3.47	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1284	11192	21045	3.47	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1644	11548		4.02	1.0E-90	BE379884.1	EST_HUMAN	601159563F2 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:351118 5'
1860	11756	21631	4.98	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2823	12752	22545	8.4	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
3777	13688	23473	1.18	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3777	13689	23474	1.18	1.0E-90	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
4326	14223	24005	1	1.0E-90	AF167340.1	NT	Homo sapiens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5481	15401	25464	2.2	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
6521	16380	26558	2.85	1.0E-90	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
7121	16998	27189	3.78	1.0E-90	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
7366	17224		1.22	1.0E-90	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
7371	17240	27444	1.72	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
7371	17240	27445	1.72	1.0E-90	11422109	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9732	19288	25225	1.89	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
9732	19288	25226	1.89	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4101	14001	23780	5.48	8.0E-91	D1234.1	EST_HUMAN	HUM000S381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'
1428	11333	21199	0.88	7.0E-91	AF053768.1	NT	Rattus norvegicus brain specific contactin-binding protein CBP90 mRNA, partial cds
6835	16714	26907	2.05	7.0E-91	11419234	NT	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
3429	13346	23151	1.47	5.0E-91	AA702794.1	EST_HUMAN	z90b04.s1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4415	14309	24092	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'

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Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4415	14309	24093	1.05	5.0E-91	AU143539.1	EST_HUMAN	AU143539 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4703	14589	24379	0.82	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4703	14589	24380	0.82	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
7087	16964	27157	1.34	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
7087	16964	27158	1.34	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLOBYF08 3'
3166	13091	22895	1.3	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3166	13091	22896	1.3	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
8301	18180	28427	3.13	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9239	18954	25314	1.67	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
9239	18954	25360	1.67	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Stratagene (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to Retrovirus-related gag polyprotein
1601	11506	21366	5.12	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
1601	11506	21367	5.12	3.0E-91	11430193	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
2624	12492	22382	0.99	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
2624	12492	22383	0.99	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
3297	13219	23020	1.77	3.0E-91	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
3416	13333	23136	2.96	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3416	13333	23137	2.96	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3720	13632	23418	0.83	3.0E-91	AF084530.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
4487	14381	24168	4.02	3.0E-91	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4905	14785	24560	1.2	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4905	14785	24561	1.2	3.0E-91	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
5488	15407	25470	1.45	3.0E-91	11434964	NT	Homo sapiens epididymal secretory protein (19.5kD) (HE1), mRNA
5807	15712		2.39	3.0E-91	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
5967	15872	25996	4.11	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
5967	15872	25997	4.11	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
6502	16361	26535	4.4	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
6502	16361	26536	4.4	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7093	16970	27163	3.31	3.0E-91	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9480	19104	25286	1.45	3.0E-91	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9812	12492	22382	3.03	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
9812	12492	22383	3.03	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
42	10030	19833	3.02	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1225	11133	20987	3.58	1.0E-91	AW449746.1	EST_HUMAN	UI-H-B13-aks-d-01-0-UI.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
6090	16035	26175	1.7	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
6090	16035	26176	1.7	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4157804 5'
9398	19885		2.42	1.0E-91	H15121.1	EST_HUMAN	ym30e03.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:49587 5'
1221	11130	20981	8.41	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1221	11130	20982	8.41	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5353	15273	25103	3.56	9.0E-92	J03007.1	NT	Human Nat K+ ATPase alpha-subunit mRNA, partial cds
5442	15362	25418	1.75	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
5882	15789	25911	3.22	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6878	16757	26954	19.33	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
6878	16757	26955	19.33	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
7342	17210	27409	1.66	9.0E-92	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
87	10071	19887	2.02	8.0E-92	W26387.1	EST_HUMAN	26f3 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
283	10248	20088	5.9	8.0E-92	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614667 5'
1778	11677	21554	1.29	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA
1778	11677	21555	1.29	8.0E-92	11434722	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG), mRNA
5944	15849	25973	1.29	8.0E-92	AJ000979.1	NT	Homo sapiens MCP-4 gene
6908	16786	26978	3.61	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
6908	16786	26979	3.61	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
7242	17119	27314	2.61	8.0E-92	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
7760	17610	27836	1.31	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for MBNL protein
8180	18067	28316	4.53	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
8667	18556	28841	3.21	8.0E-92	4503340	NT	Homo sapiens dihydropyrimidine S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST) mRNA
9572	19162	25268	1.43	8.0E-92	11434704	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
60	10046	19858	2.64	7.0E-92	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
236	12662	20020	2.51	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
236	12662	20021	2.51	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
576	10514		1.25	7.0E-92	AF007822.1	NT	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds
1259	11166	21017	1.91	7.0E-92	4502384	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2139	12027	21923	1.67	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2139	12027	21924	1.67	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2517	12391	22283	2.32	7.0E-92	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2683	12558	22445	5.01	7.0E-92	6005738	NT	Homo sapiens NRAS-related gene (D1S155E), mRNA
2724	12586	22481	1.04	7.0E-92	AB031007.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3301	15068	23023	0.92	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
3301	15068	23024	0.92	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4484	14378	24165	1.61	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
4484	14378	24166	1.61	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960 nt]
5110	14978	24752	1.45	7.0E-92	4506118	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
5219	15142	24836	4.97	7.0E-92	AA446206.1	EST_HUMAN	z668d12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1569	11473	22494	0.93	5.0E-92	BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'
2738	12600	22494	2.45	3.0E-92	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902939 5'
5583	15498	25575	3.74	3.0E-92	AA378336.1	EST_HUMAN	EST91020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
8146	18034	28281	5.7	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
8146	18034	28282	5.7	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
23	10010	19803	1.53	2.0E-92	4501898	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
172	10143	19958	2.93	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
172	10143	19959	2.93	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
732	10664	20497	1.38	2.0E-92	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	10664	20498	1.38	2.0E-92	BE299190.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1686	11588		2.74	2.0E-92	S78653.1	NT	migrasins-related [human, Genomic, 2416 nt]
1894	11789	21667	1.55	2.0E-92	AB18119.1	EST_HUMAN	wk27rd07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1894	11789	21668	1.55	2.0E-92	AB18119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2002	11895	21787	4.71	2.0E-92	4506860	NT	wk27rd07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2623	12491	22381	37.64	2.0E-92	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
3562	13476	23265	1.02	2.0E-92	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryudocan) (SDC4) mRNA
3562	13476	23266	1.02	2.0E-92	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3562	13476	23266	1.02	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3562	13476	23266	1.02	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3631	13545	23332	4.99	2.0E-92	5803180	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4191	14091	23869	1.02	2.0E-92	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
4648	14534	24323	0.79	2.0E-92	AF136523.1	NT	Homo sapiens bile salt export pump (BSEP) mRNA, complete cds
4922	14801		2.53	2.0E-92	AL040437.1	EST_HUMAN	DKFZp434C0414_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C0414 5'
5989	15894	26017	2.49	2.0E-92	AB028991.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
6420	16273		2.25	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
7141	17018	27211	1.37	2.0E-92	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:002711
8142	18030	28276	5.91	2.0E-92	11434900	NT	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA
9589	19172	28274	2.55	2.0E-92	AB029016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
9839	12491	22381	26.65	2.0E-92	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1807	11704	21582	1.11	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
1807	11704	21583	1.11	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2028	11919	21810	34.72	1.0E-92	4506668	NT	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
7286	17162	27360	4.04	1.0E-92	AI380356.1	EST_HUMAN	tg01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element MER17 repetitive element ;
7286	17162	27361	4.04	1.0E-92	AI380356.1	EST_HUMAN	tg01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ;contains Alu repetitive element;contains element MER17 repetitive element ;
1993	11876	21769	3.14	9.0E-93	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
1996	11890		9.21	9.0E-93	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2610	12478		1.46	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3563	13477	23267	0.96	9.0E-93	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
8911	18719		9.8	9.0E-93	11418526	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
5975	15879	26003	2.49	8.0E-93	BF036364.1	EST_HUMAN	601460521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863908 5'
246	10212	20028	6.24	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1399	11265	21121	1.25	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
1395	11290	21145	5.39	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1395	11290	21146	5.39	5.0E-93	AI674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2314670 3'
1459	11364		0.95	5.0E-93	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3195	13120	22925	2.42	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6540	16398	26577	3.67	5.0E-93	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
7549	17400	27613	2.07	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
7644	17494	27715	1.31	5.0E-93	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
8200	18085	28336	3.01	5.0E-93	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2), mRNA
9487	19423	25173	1.84	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
82	10066		4.72	4.0E-93	AA459933.1	EST_HUMAN	z50e09.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:795888 3' similar to SW:CLPA_RAT P37997 CALPONIN, ACIDIC ISOFORM ;
437	10381	20204	1.75	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
437	10381	20205	1.75	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	10685	20522	1.33	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
755	10685	20523	1.33	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1166	11078	20923	2.08	4.0E-93	8923658	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1934	11829	21712	5.05	4.0E-93	AF047677.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2349	12229	22126	0.84	4.0E-93	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
2564	12435	22328	2.18	4.0E-93	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
3962	13869	23647	1.44	4.0E-93	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5465	15385	25445	4.81	4.0E-93	T46864.1	EST_HUMAN	y04c12.r1 Strategene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN ,
8475	18348	28613	19.24	4.0E-93	AV692051	EST_HUMAN	AV692051 GKC Homo sapiens cDNA clone GKCDRF07 5'
3601	13515	23302	5.99	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
3601	13515	23303	5.99	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4142	14042		2.7	3.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
5535	15452	25520	1.58	3.0E-93	AI533853.1	EST_HUMAN	tn29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'
5535	15452	25521	1.58	3.0E-93	AI533853.1	EST_HUMAN	tn29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2169076 3'
5952	15857	25979	1.32	3.0E-93	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
8178	18066	28314	4.15	3.0E-93	AI824829.1	EST_HUMAN	w602d05.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2304489 3'
183	10155	19970	8.31	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
183	10155	19971	8.31	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
320	10282	20100	6.69	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
321	10282	20100	7.68	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1598	11503	21363	1.48	2.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
2093	11973	21868	1.02	2.0E-93	U40763.1	NT	Human Cdk-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2436	12313	22210	0.89	2.0E-93	BE252982.1	EST_HUMAN	601117866F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5088	14968	24732	1.02	2.0E-93	BE253201.1	EST_HUMAN	601116810F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357243 5'
5325	15245	25049	4.59	2.0E-93	AW964385.1	EST_HUMAN	EST376488 MAGE resequences, MAGE Homo sapiens cDNA
5462	15382	25442	1.52	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
6014	15918		1.32	2.0E-93	AW502002.1	EST_HUMAN	UI-HF-BNO-aks-g-09-0-ULr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078329 5'
8996	19476	28093	2.87	2.0E-93	AI312025.1	EST_HUMAN	qp78b10.x1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1929115 3'
9386	19046		1.52	2.0E-93	AA126735.1	EST_HUMAN	2129c10.s1 Soares pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503346 3'
9465	19095		1.31	2.0E-93	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
9724	19263		2.75	2.0E-93	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
96	10081	19897	1.64	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
96	10081	19898	1.64	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
507	10449	20262	2.56	1.0E-93	7657016	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
585	10523	20330	3.75	1.0E-93	AI146755.1	EST_HUMAN	oy84b08.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384 ZINC FINGER PROTEIN ;
854	10781	20631	3.32	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1217	11125	20974	6.41	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1217	11125	20975	6.41	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1321	11228	21083	1.55	1.0E-93	AE046783.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
1323	11230	21085	1.68	1.0E-93	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2289	12172	22070	1.01	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
2415	12292	22190	4.16	1.0E-93	AF055069.1	NT	Homo sapiens MHC class 1 region
2459	12336		1.09	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2792	11181	21030	2.69	1.0E-93	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2792	11181	21031	2.69	1.0E-93	BE297369.1	EST_HUMAN	601177686F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532965 5'
2903	12830	22627	4.33	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4331	14228	24010	1.44	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5417	15338	25391	1.62	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5417	15338	25392	1.62	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5607	15522	25604	9.15	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6067	16051	26197	2.06	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6299	16163	26320	4.09	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
6807	16896	28876	2.04	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
6971	16848	27039	1.18	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
7024	16901	27093	1.59	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
7437	16450	26640	1.8	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
7440	16453	26643	1.22	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
7529	17380	27589	4.54	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
7529	17380	27590	4.54	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9051	19494	25132	5.92	1.0E-93	AI268262.1	EST_HUMAN	gm03c12.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1880758 3' similar to WP:119B4.4 CE13742;
9716	19257		2.33	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
8025	17875		1.22	8.0E-94	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3880	13791	23579	1.74	6.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
9830	19331		1.67	6.0E-94	11418351	NT	Homo sapiens mitogen-activated protein kinase 12 (MAPK12), mRNA
5296	15217	25019	3.05	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5296	15217	25020	3.05	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5699	15598	25699	1.72	5.0E-94	AA722434.1	EST_HUMAN	z987g06.s1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:409594 3'
6193	16069	26218	1.63	5.0E-94	A015800.1	EST_HUMAN	ot83d05.s1 Soares_fetal_heart_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623369 3'
9361	19378	24911	4.68	5.0E-94	T89398.1	EST_HUMAN	yd98b04.s1 Soares_fetal_liver_spleen_1NFLS Homo sapiens cDNA clone IMAGE:116239 3'
9901	19378		1.27	5.0E-94	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
9907	19384		1.26	5.0E-94	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1799	11697		4.55	4.0E-94	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2621	12489	22379	0.86	4.0E-94	4506003	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
4618	14506	24295	3.02	4.0E-94	AI591312.1	EST_HUMAN	tw11f10.x1 NCI_CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to TR:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE;
5892	15798	25921	1.84	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
5892	15798	25922	1.84	4.0E-94	11440670	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
8749	17898	28142	1.72	4.0E-94	11545792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
595	10531	20339	1.17	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	10637	20462	1.17	3.0E-94	4502506	NT	Homo sapiens complement component 5 (C5) mRNA
1706	11607	21477	1.05	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1706	11607	21478	1.05	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1735	11636	21504	3.45	3.0E-94	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
4095	13995	23772	0.82	3.0E-94	AA464805.1	EST_HUMAN	zw63g08.1 Soares_total_tetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 5'
5494	15403	25466	3.58	3.0E-94	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
5881	15787	25909	4.16	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
6771	16650	26838	1.16	3.0E-94	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
6992	16889	27062	3.79	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
7533	17384	27596	4.36	3.0E-94	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
8448	18321	28580	1.75	3.0E-94	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
8928	18736	29029	2.27	3.0E-94	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds
143	10117	19937	2.24	1.0E-94	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3050	12977	22769	1.91	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:352559 5'
3050	12977	22770	1.91	1.0E-94	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:352559 5'
4261	14160	23938	1.13	1.0E-94	9506692	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
7331	17235	27439	1.93	1.0E-94	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
7636	17487	27707	1.41	1.0E-94	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872099 5'
8418	18292	28546	2.49	1.0E-94	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
8635	18500	28775	2.19	1.0E-94	A1272244.1	EST_HUMAN	ap22e02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q62845
9759	10117	19937	1.98	1.0E-94	BE295714.1	EST_HUMAN	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR. ;
1461	11366	21230	1.55	9.0E-95	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3118	13043	22839	1.13	9.0E-95	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3118	13043	22840	1.13	9.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
6801	16680	28869	1.87	9.0E-95	AF274763.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
4436	14331	24119	1.59	8.0E-95	A1700998.1	EST_HUMAN	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4436	14331	24120	1.59	8.0E-95	A1700998.1	EST_HUMAN	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
6294	16158	26314	1.83	8.0E-95	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
6294	16158	26315	1.83	8.0E-95	11426529	NT	we09e04.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
6770	16649	26837	2.05	8.0E-95	AF032897.1	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
7391	17309	27515	1.73	8.0E-95	11420944	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
7391	17309	27516	1.73	8.0E-95	11420944	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
7667	17517	27744	2.92	8.0E-95	5174644	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
							Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
							Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7681	17531		2.83	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
8096	17987	28236	2.41	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
9689	19242		8.68	8.0E-95	AA629056.1	EST_HUMAN	zu84b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.1 L1 repetitive element ;
274	10240	20058	9.46	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
274	10240	20059	9.46	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4270	14169	23947	5.94	7.0E-95	M95708.1	NT	Homo sapiens Ly-6-like protein (CD59) mRNA, complete cds
4316	14213		1.38	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
4982	14857	24623	1.03	7.0E-95	M95929.1	NT	Human homeobox protein (PHOX1) mRNA, 3' end
5340	15261	25087	1.76	3.0E-95	BF528041.1	EST_HUMAN	602071146F1 NCL_CGAP_Bn64 Homo sapiens cDNA clone IMAGE:4214147 5'
922	10847	20694	0.86	2.0E-95	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
1625	11529	21387	1.6	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1625	11529	21388	1.6	2.0E-95	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1897	11793	21672	7.79	2.0E-95	4507512	NT	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
1900	11796	21676	3.3	2.0E-95	BE393873.1	EST_HUMAN	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2376	12356	22147	1.3	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2376	12356	22148	1.3	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
2417	12294	22191	16.55	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2466	12342	22235	2.46	2.0E-95	4759423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
2767	10846	20693	0.86	2.0E-95	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
3120	13045	22842	3.51	2.0E-95	AF015462.1	NT	Homo sapiens Usurpin-gamma mRNA, complete cds
3517	13433	23232	2.78	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3517	13433	23233	2.78	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3565	13479	23268	0.96	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
3650	13604	23390	1.02	2.0E-95	AI290264.1	EST_HUMAN	qm01c02.x1 Soares_NhMMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:T23G7.4 CE03705 ;
4264	14163	23940	2.3	2.0E-95	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
4971	14846	24615	2.57	2.0E-95	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5022	14895	24663	0.98	2.0E-95	AA447931.1	EST_HUMAN	zx11d07.r1 Soares_totat_fetus_Nb2-HF8_9w Homo sapiens cDNA clone IMAGE:786157 5'
5022	14895	24664	0.98	2.0E-95	AA447931.1	EST_HUMAN	zx11d07.r1 Soares_totat_fetus_Nb2-HF8_9w Homo sapiens cDNA clone IMAGE:786157 5'
5367	15287	25121	3.69	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5367	15287	25122	3.69	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA

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Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5734	15642	25748	4.54	2.0E-95	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
5957	15862	25984	2.25	2.0E-95	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6055	16038	26179	1.62	2.0E-95	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
8106	17996	28245	2.36	2.0E-95	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRIIA) mRNA
9452	19084	25285	1.98	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
9840	19338	25211	4.34	2.0E-95	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5450	15371	25427	7.73	1.0E-95	AA284651.1	EST_HUMAN	z23h04.r1 Soares ovary tumor NbhOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6 ;
5450	15371	25428	7.73	1.0E-95	AA284651.1	EST_HUMAN	z23h04.r1 Soares ovary tumor NbhOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F55H2.6 ;
6437	16298	26460	4.85	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
6437	16298	26461	4.85	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
6767	16646	26835	1.67	9.0E-96	BE897259.1	EST_HUMAN	601437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
435	12666	20201	0.82	8.0E-96	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899761 5'
435	12666	20202	0.82	8.0E-96	BE907607.1	EST_HUMAN	601497608F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899761 5'
5383	15302		2.66	8.0E-96	AW836047.1	EST_HUMAN	PM0-L T0019-090300-002-d09 L T0019 Homo sapiens cDNA
3834	13746	23538	0.95	7.0E-96	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
2213	12099	22003	0.85	6.0E-96	BE171984.1	EST_HUMAN	MR0-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA
3276	13197	22997	0.96	6.0E-96	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3437	13354	23159	26.15	6.0E-96	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3' end
8631	18644	28927	1.98	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8831	18644	28928	1.98	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8870	18682	28972	2.09	6.0E-96	8923339	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
317	10279	20096	2.7	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
824	10751	20599	3.06	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
824	10751	20600	3.06	5.0E-96	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2576	12447		2.31	5.0E-96	11416767	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2991	12919	22713	0.98	5.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
4810	14694		1.22	5.0E-96	X60812.1	NT	H.sapiens DNA for monoamine oxidase type A (7) (partial)
6065	16048	26193	4.23	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6065	16048	26194	4.23	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6719	16599	26788	1.81	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5
6719	16599	26789	1.81	5.0E-96	M68347.1	NT	Human type IV collagenase (CLG4B) gene, exon 5

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4097	13997		6.22	3.0E-96	H68656.1	EST_HUMAN	yr87h12.1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:212327 5'
409	10355		3.49	2.0E-96	4503098	NT	Homo sapiens chondroin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
730	10662	20494	1.56	2.0E-96	AL163248.2	NT	Homo sapiens chromosome 21 segment HS21C048
4651	14537	24326	1.58	2.0E-96	BE148074.1	EST_HUMAN	RC3-HT0230-040500-110-g02 HT0230 Homo sapiens cDNA
7191	17068		5.08	2.0E-96	AV689461.1	EST_HUMAN	AV689461 GKC Homo sapiens cDNA clone GKCFMD07 5'
9151	18902		2.05	2.0E-96	AW249440.1	EST_HUMAN	2819351.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'
655	10590	20408	1.69	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1742	11643	21510	2.03	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
1742	11643	21511	2.03	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGC resequences, MAGC Homo sapiens cDNA
1806	11703	21580	0.89	1.0E-96	4503756	NT	Homo sapiens flavin containing monooxygenase 2 (FMO2) mRNA
1806	11703	21581	0.89	1.0E-96	4503756	NT	Homo sapiens flavin containing monooxygenase 2 (FMO2) mRNA
2181	12068	21969	1.33	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
2181	12068	21970	1.33	1.0E-96	M75967.1	NT	Human hepatocyte growth factor gene, exon 1
2219	12650	22009	1.88	1.0E-96	U51472.2	NT	Felis catus superfast myosin heavy chain (sMyHC) mRNA, complete cds
7058	16935	27125	20.65	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7138	17015	27208	1.98	1.0E-96	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
7843	17693	27938	1.64	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
7843	17693	27939	1.64	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
3285	13206	23006	0.95	6.0E-97	BF245240.1	EST_HUMAN	601863712F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4081202 5'
6459	16319		2.75	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA
6672	16552	26747	1.76	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 494 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
6735	16614	26804	10.79	5.0E-97	AA418026.1	EST_HUMAN	zv97e12.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
7578	17429	27643	2.76	5.0E-97	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA ;
8832	18645	28929	1.87	5.0E-97	BE148597.1	EST_HUMAN	RC0-BT0812-250900-032-a09 BT0812 Homo sapiens cDNA
8832	18645	28930	1.87	5.0E-97	BE148597.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
924	10849	20697	1.26	4.0E-97	BE004436.1	EST_HUMAN	MRO-HT0241-150500-010-b02 HT0241 Homo sapiens cDNA
1868	11764	21638	1.08	4.0E-97	5453572	NT	CMO-BN0108-170300-293-a06 BN0106 Homo sapiens cDNA
6082	16027	26167	6.1	4.0E-97	Y11339.2	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
6082	16027	26168	6.1	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
6867	16746	26939	1.41	4.0E-97	11421793	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
7328	17232	27433	1.17	4.0E-97	AB011166.1	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
							Homo sapiens mRNA for KIAA0594 protein, partial cds

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7328	17232	27434	1.17	4.0E-97	AB01166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
8503	18376	28641	1.76	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
8503	18376	28642	1.76	4.0E-97	11863122	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), transcript variant 1, mRNA
8733	17882	28124	15.68	4.0E-97	AB042557.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
8736	17885	28128	2.31	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
8736	17885	28129	2.31	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
9331	19012		3.83	4.0E-97	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
243	10210	20026	1.17	3.0E-97	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
856	10783	20633	10.96	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
856	10783	20634	10.96	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1423	12894	21195	1.77	3.0E-97	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2889	12652	22161	1.92	3.0E-97	U36255.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 7
3223	13147	22948	1.14	3.0E-97	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
4670	14556	24349	12.55	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
5872	15778	25897	2.19	1.0E-97	BE566486.1	EST_HUMAN	601339520F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
8088	17979	28229	3.41	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8088	17979	28230	3.41	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
8629	18494	28768	2.82	1.0E-97	AA553761.1	EST_HUMAN	tk29g02.s1 NCI CGAP Co11 Homo sapiens cDNA clone IMAGE:1014962 3'
8763	17912	28156	13.54	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
8763	17912	28157	13.54	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
883	10809	20658	8	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
1255	11162	21012	1.29	9.0E-98	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6623	16503	26691	4.74	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
6623	16503	26692	4.74	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7271	17148	27342	2.77	9.0E-98	X06989.1	NT	Human mRNA for amyloid A4(751) protein
7319	17195	27395	2.41	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7355	17223	27423	1.39	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
8369	18246	28497	2.24	9.0E-98	AB032222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
8369	18246	28498	2.24	9.0E-98	AB032222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
9345	10809	20658	4.97	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-a12 BT0724 Homo sapiens cDNA
1350	11256	21112	0.89	8.0E-98	AB033768.1	NT	Homo sapiens hPAD-colony10 mRNA for peptidylarginine deiminase type I, complete cds
1540	11444	21303	1.04	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1540	11444	21304	1.04	8.0E-98	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
1695	11597	21468	0.98	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1695	11597	21469	0.98	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3726	13638	23424	5.03	8.0E-98	J04469.1	NT	Human mitochondrial creatine kinase (CKMT) gene, complete cds
5049	14921		0.88	8.0E-98	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
9717	19258	25220	1.29	4.0E-98	BE348727.1	EST_HUMAN	ht68f02.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151899 3'
2131	12019	21917	1.21	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
2565	12436	22329	1.85	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
2720	12582		2.09	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6147	16020	26159	1.7	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6147	16020	26160	1.7	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
7083	16960	27153	3.31	3.0E-98	H46698.1	EST_HUMAN	yc17409.r1 Soares adult brain N2b5fHB55Y Homo sapiens cDNA clone IMAGE:178240 5'
7685	17535	27759	1.6	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
7685	17535	27760	1.6	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone l8
8322	18199	28448	5.15	3.0E-98	U59309.1	NT	Human fumarsate precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
9895	19373		2.47	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2033	11924	21816	29.05	2.0E-98	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2191	12078	21983	1.45	2.0E-98	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4199	14099	23880	0.96	2.0E-98	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4244	14143	23916	4.94	2.0E-98	4758331	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4720	14606	24390	1.51	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4720	14606	24391	1.51	2.0E-98	AF218902.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
5069	14939	24711	6.39	2.0E-98	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
5069	14939	24712	6.39	2.0E-98	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
5163	15029	24795	1.09	2.0E-98	4758975	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
5303	15224	25028	4.66	2.0E-98	7706512	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
7004	16881	27073	3.87	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
7004	16881	27074	3.87	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
7497	17367	27572	1.5	2.0E-98	X12664.1	NT	H.sapiens arginase gene exon 3 (EC 3.5.3.1)
7951	17801		1.18	2.0E-98	7705868	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
9350	19026	25301	1.43	2.0E-98	11435947	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
399	10345	20172	18.93	1.0E-98	AI862007.1	EST_HUMAN	tw36b04.x1 NCI_CGAP_UY1 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN P29316 60S RIBOSOMAL PROTEIN L23A. ;

Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
447	10391	20212	2.38	1.0E-98	AW998611.1	EST_HUMAN	PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA
1756	11655	21526	16.96	1.0E-98	N49818.1	EST_HUMAN	yw23105.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S54204 S54204 ribosomal protein L29 - human ;
5256	15178	24953	6.96	1.0E-98	AA195854.1	EST_HUMAN	zp98c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628240 5' similar to TR:9806562 G806562 NEBULIN ;
7203	17080	27266	1.36	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
7203	17080	27267	1.36	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5681	15590	25692	4.29	9.0E-99	AW98635.1	EST_HUMAN	EST380711 MAGE resequences, MAGJ Homo sapiens cDNA
8465	18338	28602	2.6	9.0E-99	AI479829.1	EST_HUMAN	tm69h07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8465	18338	28603	2.6	9.0E-99	AI479829.1	EST_HUMAN	tm69h07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST ;
8716	18533	28817	1.84	9.0E-99	AA134604.1	EST_HUMAN	zn60d02.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to TR:G662994 G662994 GPI-ANCHORED PROTEIN P137 ;
7065	16942	27134	1.19	8.0E-99	9635487	NT	Human endogenous retrovirus, complete genome
5561	15477	25550	9.2	7.0E-99	AF035808.1	NT	Homo sapiens oscillin (hLn) gene, exon 5
8884	18695	28988	2.31	7.0E-99	AF001886.1	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
2080	11970	21863	0.93	6.0E-99	11430555	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, (LOC51232), mRNA
2080	11970	21864	0.93	6.0E-99	11430555	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, (LOC51232), mRNA
3814	13726	23517	1.87	6.0E-99	AW976364.1	EST_HUMAN	EST388473 MAGE resequences, MAGN Homo sapiens cDNA
4642	14530	24318	1.16	6.0E-99	4502660	NT	Homo sapiens CD34 antigen (CD34) mRNA
6013	15917	26047	2.36	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
6013	15917	26048	2.36	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
6718	16598	26787	1.21	6.0E-99	X99101.1	NT	H. sapiens mRNA for estrogen receptor
7089	16966	27160	2.18	6.0E-99	AB036429.1	NT	Homo sapiens NDS14 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
7143	17020	27213	3.57	6.0E-99	AF080255.1	NT	Homo sapiens lodestar protein mRNA, complete cds
7143	17020	27214	3.57	6.0E-99	AF080255.1	NT	Homo sapiens lodestar protein mRNA, complete cds
8102	17992	28241	3.72	6.0E-99	11528299	NT	Homo sapiens BH3 interacting domain death agonist (BID), mRNA
902	10827	20671	0.86	5.0E-99	U35484.1	NT	Human protein C inhibitor (PCI-B) mRNA, complete cds
902	10827	20672	0.86	5.0E-99	U35484.1	NT	Human protein C inhibitor (PCI-B) mRNA, complete cds
1922	11817	21696	2.36	5.0E-99	Y11365.1	NT	H. sapiens IMPA gene, exon 8
4463	14357	24148	1.35	5.0E-99	AF009660.1	NT	Homo sapiens T cell receptor beta locus, TORBV7S3A2 to TORBV12S2 region
5066	14936	24709	2.46	5.0E-99	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
9360	19032		2.1	5.0E-99	BE990177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914391 5'

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	16723		5.37	3.0E-99	M95586.1	NT	Human E2A/HLA fusion protein (E2A/HLE) mRNA, complete cds
1219	11128		3.46	2.0E-99	AW274792.1	EST_HUMAN	xp09e06.x1 NCJ_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb:M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3220	13144	22947	1.08	2.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4443	14337	24127	3.15	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7053	16930	27121	9.75	2.0E-99	W23507.1	EST_HUMAN	zb46d06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
8451	18324	28583	3.83	2.0E-99	AF247457.2	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
312	10274	20093	1.53	1.0E-99	AF114487.1	NT	Homo sapiens interseclin long isoform (ITSN) mRNA, complete cds
375	10329	20152	1.04	1.0E-99	11526150	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
1401	11306	21166	2.11	1.0E-99	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1537	11441	21298	1.47	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1537	11441	21299	1.47	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1885	11781	21656	1.1	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
1885	11781	21657	1.1	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3046	12973	22766	0.89	1.0E-99	J03171.1	NT	Human interferon-alpha receptor (HulFN-alpha-Rec) mRNA, complete cds
4283	14182	23960	2.74	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4283	14182	23961	2.74	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5200	15063		1.18	1.0E-99	AL163281.2	NT	Homo sapiens chromosome 21 segment HS21C081
7305	17181		1.15	1.0E-99	11419721	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
7483	17363	27557	1.68	1.0E-99	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR:O02711
8683	18571	28854	2.4	1.0E-99	AB023222.1	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
9125	18884						Homo sapiens mRNA for KIAA1005 protein, partial cds
1	9989	19780	3.76	1.0E-99	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2	9989	19780	1.13	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
62	10048	19859	1.93	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
62	10048	19860	1.48	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
81	10065	19883	1.52	1.0E-100	AW275237.1	EST_HUMAN	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
162	10135	19950	1.16	1.0E-100	AL163206.2	NT	xv78b11.x1 NCJ_CGAP_Bm53 Homo sapiens cDNA clone IMAGE:2824605 3'
314	10276	20095	1.01	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C006
340	10299	20114	2.43	1.0E-100	T05087.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C049
							EST02975 Fetal brain, Strategene (cat#936206) Homo sapiens cDNA clone HFBRCR32

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
430	10375		1.53	1.0E-100	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
481	10425		7.04	1.0E-100	X89631.1	NT	G.gorilla DNA for ZNF80 gene homolog
500	10442	20255	4.17	1.0E-100	BE180609.1	EST_HUMAN	RC3-HT0625-040500-022-b09 HT0625 Homo sapiens cDNA
1002	10920	20763	2.43	1.0E-100	7681685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1002	10920	20764	2.43	1.0E-100	7681685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1528	11433		1.33	1.0E-100	AW207555.1	EST_HUMAN	UI-H-B11-afk-c-07-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
1533	11437	21294	1.46	1.0E-100	AI200857.1	EST_HUMAN	qf0209.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA P81061 CYSTATIN ;
2195	12082		1.45	1.0E-100	D83349.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2388	12267	22160	1.08	1.0E-100	X62468.1	NT	H. sapiens mRNA for IFN-gamma (pKC-0)
2674	12539	22429	1.87	1.0E-100	11418976	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
2985	12913		2.45	1.0E-100	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4116	14016	23796	1.49	1.0E-100	AF057354.1	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4143	14043	23816	1.87	1.0E-100	4503792	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5024	14897	24665	3.07	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5024	14897	24666	3.07	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5232	15156	24924	1.8	1.0E-100	BF244218.1	EST_HUMAN	601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'
5496	15415	25478	1.4	1.0E-100	AU118182.1	EST_HUMAN	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5514	15432	25496	1.55	1.0E-100	AF135116.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
5915	15821	25946	5.1	1.0E-100	AU140214.1	EST_HUMAN	AU140214 PLACE2 Homo sapiens cDNA clone PLACE2000137 5'
6015	15919	26049	1.41	1.0E-100	R10987.1	EST_HUMAN	yf38c08.s1 Soares fetal liver spleen 1NF1LS Homo sapiens cDNA clone IMAGE:129134 3'
6116	16010	26146	1.4	1.0E-100	BF376478.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
6116	16010	26147	1.4	1.0E-100	BF376478.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
6119	16013	26151	6.99	1.0E-100	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
6963	16841	27033	6.19	1.0E-100	BF103853.1	EST_HUMAN	601647357F1 NIH_MGC_61 Homo sapiens cDNA clone IMAGE:3931310 5'
6983	16860		5.44	1.0E-100	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
7322	17198	27398	3.2	1.0E-100	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
7369	17347		1.53	1.0E-100	AI972388.1	EST_HUMAN	wr37g09.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element MER22 repetitive element ;
7426	16439	26625	1.67	1.0E-100	AW998611.1	EST_HUMAN	PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA
7527	17378	27587	1.73	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1626 protein, partial cds
7527	17378	27588	1.73	1.0E-100	AB046846.1	NT	Homo sapiens mRNA for KIAA1626 protein, partial cds
7664	17514	27740	1.69	1.0E-100	AW630487.1	EST_HUMAN	hh83c1.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database Source	Top Hit Descriptor
7664	17514	27741	1.69	1.0E-100	AW630487.1	h83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969396 5'
8016	17866		1.29	1.0E-100	Y10391.1	Human endogenous retrovirus HERV-K, pol gene
8141	18029	28275	5.23	1.0E-100	BF327292.1	MR0-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
8606	18473	28745	2.14	1.0E-100	X94633.1	H.sapiens CD97 gene exon 4
8606	18473	28746	2.14	1.0E-100	X94633.1	H.sapiens CD97 gene exon 4
8660	18549	28831	4.56	1.0E-100	AF111170.3	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
8660	18549	28832	4.56	1.0E-100	AF111170.3	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
8688	9989	19780	1.96	1.0E-100	AL163247.2	Homo sapiens chromosome 21 segment HS21C047
8630	18738		1.86	1.0E-100	AF266285.1	Homo sapiens golgin-like protein (GLP) gene, complete cds
9048	18832	29114	5.59	1.0E-100	AF240786.1	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
9351	19027	25302	2.21	1.0E-100	11545732	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
9940	19409	25181	3.38	1.0E-100	11417974	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
70	10055	19871	1.22	1.0E-101	7110714	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
70	10055	19872	1.22	1.0E-101	7110714	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	10605	20422	1.16	1.0E-101	AB007915.2	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	10621	20447	4.45	1.0E-101	7110734	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
688	10621	20448	4.45	1.0E-101	7110734	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	10684	20521	1.32	1.0E-101	7657454	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRC domain (PES1), mRNA
835	10762	20612	1.28	1.0E-101	4503914	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminimidazole synthetase (GART) mRNA
908	10832	20679	3.44	1.0E-101	Z20656.1	Homo sapiens of cardiac alpha-myosin heavy chain gene
969	10892	20741	12.74	1.0E-101	BF681218.1	602159474F1 NIH_MGC 83 Homo sapiens cDNA clone IMAGE:4297291 5'
1036	10954	20796	1.63	1.0E-101	AI221878.1	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
1712	11613	21483	0.87	1.0E-101	7662183	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1712	11613	21484	0.87	1.0E-101	7662183	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1901	11797	21677	1.62	1.0E-101	4502906	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2010	11902	21792	1.6	1.0E-101	BE843070.1	RC3-ST0281-160600-016-h09 ST0281 Homo sapiens cDNA
2301	12718	22080	1.66	1.0E-101	5729892	Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
2572	12443	22335	4.4	1.0E-101	X72993.1	H.sapiens EWS gene, exon 5
2714	12576	22468	2.56	1.0E-101	AJ237744.1	Homo sapiens RIBLIR gene (partial), exon 12
2714	12576	22469	2.56	1.0E-101	AJ237744.1	Homo sapiens RIBLIR gene (partial), exon 12
2925	12852		12.14	1.0E-101	AJ252312.1	Homo sapiens genomic downstream Rhesus box
3167	13092	22897	2.51	1.0E-101	4885270	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3203	13127		2.16	1.0E-101	BF033327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
3334	13254	23059	1.67	1.0E-101	AW965556.1	EST_HUMAN	EST1377629 MAGE resequenes, MAGI Homo sapiens cDNA
3354	12576	22468	1.75	1.0E-101	AJ237744.1	NT	Homo sapiens RIB1R gene (partial), exon 12
3354	12576	22469	1.75	1.0E-101	AJ237744.1	NT	Homo sapiens RIB1R gene (partial), exon 12
3800	13712	23499	4.83	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4965	14840	24609	1.67	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4965	14840	24610	1.67	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5257	15179	24954	1.4	1.0E-101	AW965139.1	EST_HUMAN	EST1377212 MAGE resequenes, MAGI Homo sapiens cDNA
5651	15593	26658	3.73	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5651	15593	26659	3.73	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6333	16196	26356	4.16	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
6333	16196	26357	4.16	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
6416	16278	26441	5.63	1.0E-101	AW008475.1	EST_HUMAN	w55f12.x1 NC1_CGAP_Cas4 Homo sapiens cDNA clone IMAGE:2533487 3'
6471	16330		1.55	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3349901 5'
6544	16402	26581	5.3	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
6693	16573	26764	2.65	1.0E-101	BF029174.1	EST_HUMAN	601764686F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
7208	17085	27274	1.15	1.0E-101	AA036800.1	EST_HUMAN	zk29g08.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:471998 5' similar to PIR:S54640 S54640 YD9335.03c protein - yeast;
7446	16458	26650	16.52	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
7446	16458	26651	16.52	1.0E-101	X60069.1	NT	Human mRNA for pancreatic gamma-glutamyltransferase
7454	17263	27468	18.4	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
7623	17474	27694	5.64	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
7623	17474	27695	5.64	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
7950	17800	28040	1.76	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
8252	18132	28381	2.88	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
8454	18327	28586	1.78	1.0E-101	AB020626.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
9610	19189		11.62	1.0E-101	AW939051.1	EST_HUMAN	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
338	10297	20111	3.24	1.0E-102	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
604	10540	20350	0.89	1.0E-102	BE252470.1	EST_HUMAN	601108292F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344326 5'
758	10688	20526	1.46	1.0E-102	4557534	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1101	11017	20859	1.95	1.0E-102	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete proviral segment
1247	11154	21002	1.39	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1247	11154	21003	1.39	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1398	11303	21162	90.24	1.0E-102	BE408447.1	EST_HUMAN	601299982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5'
2281	12145	22044	1.34	1.0E-102	A1124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-95 ;
2281	12145	22045	1.34	1.0E-102	A1124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to
3026	12954	22747	1.51	1.0E-102	7661979	NT	SW:GG95_HUMAN Q08379 GOLGIN-95 ;
3094	13021	22815	5.61	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3094	13021	22816	5.61	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4139	14039	23814	1.46	1.0E-102	AL163207.2	NT	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4314	14211	23994	2.11	1.0E-102	BE251310.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C007
5063	14933	24705	1.09	1.0E-102	R06488.1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'
5300	15221	25025	1.88	1.0E-102	AF067133.1	NT	y32c04.r1 Soares placenta Nk2HP Homo sapiens cDNA clone IMAGE:140934 5'
5515	15433		7.27	1.0E-102	AB034951.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5536	15433	25522	3.46	1.0E-102	7705398	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5536	15433	25523	3.46	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
							Homo sapiens histone deacetylase 7 (HDAC7), mRNA
							ar82f09.x1 Barslead colon HPLR87 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
5800	15706	25818	2.54	1.0E-102	AI459825.1	EST_HUMAN	Q13137 NDP52 ;
6351	16214	26376	6.56	1.0E-102	AJ238994.1	NT	Homo sapiens mRNA for Centaurin-alpha2 protein
6495	16354	26524	2.53	1.0E-102	AV710738.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CuAAKD03 5'
6787	16686	26857	4.2	1.0E-102	BE763051.1	EST_HUMAN	QV3-NT0025-210600-236-H08 NT0025 Homo sapiens cDNA
6832	16711	26904	2.53	1.0E-102	BE910555.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3903145 5'
6945	16823	27014	1.36	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GK Homo sapiens cDNA clone GKCEEE11 5'
6945	16823	27015	1.36	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GK Homo sapiens cDNA clone GKCEEE11 5'
7001	16878	27069	4.06	1.0E-102	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
7374	17243	27448	1.52	1.0E-102	T70393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'
7374	17243	27449	1.52	1.0E-102	T70393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:67021 5'
7415	17282	27490	3.59	1.0E-102	AU124629.1	EST_HUMAN	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
7961	17811	28052	2.03	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
7961	17811	28053	2.03	1.0E-102	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
7981	17831	28070	2.9	1.0E-102	AI905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
7981	17831	28071	2.9	1.0E-102	AI905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
							on57h04.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to SW:CAV2_HUMAN P51638 CAVEOLIN-2. [1];
8005	17855	28096	2.3	1.0E-102	AA970786.1	EST_HUMAN	601439392F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924166 5'
8421	18295	28549	2.38	1.0E-102	BE897468.1	EST_HUMAN	

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8424	18298	28553	1.99	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
8424	18298	28554	1.99	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
8708	18525	28807	2.78	1.0E-102	BF359243.1	EST_HUMAN	RC8-ET0072:150600-011-F01 ET0072 Homo sapiens cDNA
8947	18755	29051	4.04	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
9054	18837		2.82	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
9601	19183	25247	4.77	1.0E-102	AW300862.1	EST_HUMAN	xk07c12.x1 NCL CGAP_Co20 Homo sapiens cDNA clone IMAGE:266038 3'
63	10049	19861	0.82	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
63	10049	19862	0.82	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
93	10078	19894	8.1	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
201	10173	19989	0.83	1.0E-103	5453793	NT	Homo sapiens nucleolar protein (KKEID repeat) (NOP56) mRNA
965	10888	20734	1.01	1.0E-103	AJ278348.1	NT	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1223	11131	20985	7.29	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1578	11482	21342	2.32	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
1872	11968	21643	1.04	1.0E-103	7657592	NT	Homo sapiens sing GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1932	11827	21708	1.27	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1932	11827	21709	1.27	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2257	12141	22040	1.57	1.0E-103	AU134991.1	EST_HUMAN	AU134991 PLACE1 Homo sapiens cDNA clone PLACE1000965 5'
2401	12278	22175	2.22	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2578	12449	22340	0.86	1.0E-103	N32770.1	EST_HUMAN	yw91d08.s1 Soares_placenta_8to9weeks_2NblHP8tc9W Homo sapiens cDNA clone IMAGE:259599 3'
3030	12958		2.43	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3333	13253	23058	3.44	1.0E-103	AW298245.1	EST_HUMAN	UI-H-BW0-ajl-h-11-0-UJ.s1 NCL CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2733165 3'
3393	13310	23103	1.06	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3695	13609		2.41	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3725	13637	23423	1.16	1.0E-103	AA485663.1	EST_HUMAN	ab10d12.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element ;
3757	13670	23454	1.39	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
3922	13831	23611	3.02	1.0E-103	T23683.1	EST_HUMAN	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3'
5619	15534	25619	1.72	1.0E-103	AF179995.1	NT	Homo sapiens septin 2 (SEP2) mRNA, partial cds
5998	15903	26027	5.37	1.0E-103	AF053490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4
6033	15936	26069	1.68	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS ;

Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6033	15936	26070	1.68	1.0E-103	A1590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6092	15102	24878	1.68	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS288, DXS289, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6092	15102	24879	1.68	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS288, DXS289, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6289	16153	26310	1.64	1.0E-103	AW965776.1	EST_HUMAN	EST377849 MAGE resequences, MAGI Homo sapiens cDNA
6338	16201	26361	3.21	1.0E-103	BE748158.1	EST_HUMAN	601571537F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3838545 5'
6568	16426	26607	3.28	1.0E-103	A1590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6568	16426	26608	3.28	1.0E-103	A1590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.;
6823	16702	26896	2.95	1.0E-103	T31080.1	EST_HUMAN	EST127193 Human Brain Homo sapiens cDNA 5' end similar to None
7010	16887	27079	1.17	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
7010	16887	27080	1.17	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
7050	16927	27118	1.43	1.0E-103	BF109244.1	EST_HUMAN	7160e03.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1;
7267	17144	27337	3.08	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
7267	17144	27338	3.08	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
7787	17637	27870	2.02	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
7815	17685	27905	2.09	1.0E-103	AW963676.1	EST_HUMAN	EST375749 MAGE resequences, MAGH Homo sapiens cDNA
7878	17728	27972	9.93	1.0E-103	A1878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to TR:O15046 O15046 KIAA0338;
8115	18004	28250	3.08	1.0E-103	A1792759.1	EST_HUMAN	o102d06.y5 NCL_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING;
8218	18101	28353	2.74	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
8218	18101	28354	2.74	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
8681	18569	28852	2.56	1.0E-103	AU136283.1	EST_HUMAN	AU136283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
8743	17892	28136	6.49	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8973	18778	29070	3.42	1.0E-103	BE644611.1	EST_HUMAN	7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29.t3 MER29 repetitive element;

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Table 4
Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9049	18833		1.72	1.0E-103	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9079	18855		2.65	1.0E-103	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
9275	18879	25323	2.21	1.0E-103	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
233	10202	20016	2.6	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
233	10202	20017	2.6	1.0E-104	AL037549.3	EST_HUMAN	DKFZp564H1072_r1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFZp564H1072 5'
1845	11741	21617	1.81	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2147	12035	21932	7.16	1.0E-104	AA132975.1	EST_HUMAN	zo22a06.s1 Striatagene colon (#937204) Homo sapiens cDNA clone IMAGE:587626 3' similar to gb.Z14116.mna1 CD99 GLYCOPROTEIN PRECURSOR (HUMAN);
2157	12044	21944	1.91	1.0E-104	BE744628.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2318	12199	22097	1.15	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2318	12199	22098	1.15	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-f12 CT0249 Homo sapiens cDNA
2387	12266	22159	1.55	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2842	12770	22559	7.64	1.0E-104	M34671.1	NT	Human lymphocytic antigen CD59/MEIM43 mRNA, complete cds
2886	12813		2.82	1.0E-104	Y11151.1	NT	H.sapiens gene encoding phenylpyruvate tautomerase II
3345	13265		1.54	1.0E-104	AA319436.1	EST_HUMAN	EST21658 Adrenal gland tumor Homo sapiens cDNA 5' end
3550	13465	23260	0.99	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3550	13465	23261	0.99	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3861	13772	23564	0.91	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4280	14179	23957	4.28	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)
4504	14397	24182	0.9	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4504	14397	24183	0.9	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5617	15532	25615	1.33	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5617	15532	25616	1.33	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5891	15797	25919	8.46	1.0E-104	A1768797.1	EST_HUMAN	wj03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN ; contains element LTR7 repetitive element ;
5891	15797	25920	8.46	1.0E-104	A1768797.1	EST_HUMAN	wj03b12.x1 NCL CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145 KIAA0132 PROTEIN ; contains element LTR7 repetitive element ;
6073	16056	26204	1.52	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6073	16056	26205	1.52	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
6288	16152	26309	2.38	1.0E-104	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
7288	17164	27363	2.24	1.0E-104	BF448230.1	EST_HUMAN	nac16g11.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3365948 3'
7370	17239	27442	4.66	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
7370	17239	27443	4.66	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NC:	Exon SEQ ID NC:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7430	16443	26630	3.84	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
7430	16443	26631	3.84	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
7809	17659	27898	3.14	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
7809	17659	27899	3.14	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
7947	17797	28037	1.42	1.0E-104	AV728070.1	EST_HUMAN	AV728070 HTC Homo sapiens cDNA clone HTCBYA07 5'
7966	17816	28057	4.51	1.0E-104	AU130765.1	EST_HUMAN	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
8014	17864	28110	4.24	1.0E-104	U66535.1	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
8617	18484	28755	1.84	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
8617	18484	28756	1.84	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
8641	18505	28783	4.49	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
9842	19340		1.37	1.0E-104	BE393892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658676 5'
277	12637	20062	2.86	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
419	9986	19777	16.85	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
579	10517	20323	3.22	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
579	10517	20324	3.22	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1777	11676	21553	1.16	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1884	11780	21655	1.75	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2142	12030	21928	1.84	1.0E-105	AA318369.1	EST_HUMAN	EST20609 Spleen l Homo sapiens cDNA 5' end similar to autimmune antigen Ku, p70/p80 subunit
2689	12584		0.87	1.0E-105	AA584808.1	EST_HUMAN	no10d05.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100265 3'
2975	12902		2.57	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
3307	13228	23032	0.93	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3307	13228	23033	0.93	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3592	13506		1.26	1.0E-105	11425532	NT	Homo sapiens dermatopontin (DPT), mRNA
4008	13914	23689	2.15	1.0E-105	AW061688.1	EST_HUMAN	EST3/3761 MAGE resequences, MAGG Homo sapiens cDNA
4638	14526	24313	0.84	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4638	14526	24314	0.84	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4855	14735		3.74	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5044	14916	24690	0.95	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
5095	14965	24740	2.23	1.0E-105	AB020675.1	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5161	14916	24690	1.3	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
6167	15124	24840	3.06	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6167	15124	24841	3.06	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6679	16559	26754	6.43	1.0E-105	T05087.1	EST_HUMAN	EST02975 Fetal brain, Strategene (cat#936206) Homo sapiens cDNA clone HFBRCR32

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Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6894	16773	26967	1.8	1.0E-105	AW007194.1	EST_HUMAN	ws50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500626 3' similar to SW_ACSA_PENCH P36333 ACETYL-COENZYME A SYNTHETASE ;
7234	17111	27304	2.99	1.0E-105	AW016879.1	EST_HUMAN	UI-H-B10p-abi-b-12-0-J1.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
8303	18181	28428	5.44	1.0E-105	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
8560	18430	28699	1.8	1.0E-105	D63548.1	NT	Homo sapiens COL4A6 gene for $\alpha 6(\text{IV})$ collagen, exon 31
8602	18469	28740	2.06	1.0E-105	7705936	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
8867	18679	28968	2.01	1.0E-105	AW027554.1	EST_HUMAN	wv74f07.x1 Soares_thymus_NHFT11 Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87892 P87892 PROTEASE ;
145	10119		0.96	1.0E-106	AW503208.1	EST_HUMAN	UI-HF-BN0-akt-g-07-0-J1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
198	10170	19987	1.54	1.0E-106	A1660055.1	EST_HUMAN	tg79c01.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2215008 3'
531	10473	20286	1.77	1.0E-106	AW965556.1	EST_HUMAN	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
589	10527	20334	0.79	1.0E-106	J00146.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
590	10527	20334	1.21	1.0E-106	J00146.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
1508	11413	21272	2.66	1.0E-106	AF145712.1	NT	Homo sapiens soluble neuropilin-1 mRNA, complete cds
1674	11576	21444	4.51	1.0E-106	U48724.1	NT	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1762	11661	21533	5.12	1.0E-106	AA527446.1	EST_HUMAN	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element LTR3 repetitive element ;
1762	11661	21534	5.12	1.0E-106	AA527446.1	EST_HUMAN	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element LTR3 repetitive element ;
2075	11965	21858	1.08	1.0E-106	BE144286.1	EST_HUMAN	MIR0-H10165-140200-008-d10 HT0165 Homo sapiens cDNA
2269	12163	22052	8.39	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2456	12333	22229	1.63	1.0E-106	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2557	12429	22322	1.25	1.0E-106	U64675.2	NT	Homo sapiens sperm membrane protein BS-63 mRNA, complete cds
2559	12431	22324	1.94	1.0E-106	BE260201.1	EST_HUMAN	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
2729	12591	22487	4.23	1.0E-106	AL276526.1	EST_HUMAN	ql76h10.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
2795	11319	21183	2.97	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2795	11319	21184	2.97	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2911	12837	22635	5.01	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
2911	12837	22636	5.01	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
3143	13068	22867	2.36	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3143	13068	22868	2.36	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3328	13248	23063	0.8	1.0E-106	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3394	13311	23109	0.98	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3394	13311	23110	0.98	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3952	13860	23634	7.22	1.0E-106	AW974650.1	EST_HUMAN	EST336875 MAGE resequences, MAGN Homo sapiens cDNA
3952	13860	23635	7.22	1.0E-106	AW974650.1	EST_HUMAN	EST336875 MAGE resequences, MAGN Homo sapiens cDNA
4497	14391	24176	1.21	1.0E-106	BE144286.1	EST_HUMAN	MRO-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
5183	15047		1.21	1.0E-106	L41644.1	NT	Homo sapiens dystrophin gene, exon 41
5298	15219	25022	2.98	1.0E-106	AA781155.1	EST_HUMAN	aj24b09.s1 Soares_testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN PHPS1-2 (HUMAN);
5711	15619	25722	6.78	1.0E-106	BF679574.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295067 5'
5866	15772	25891	16.4	1.0E-106		NT	Homo sapiens xylosyltransferase II (XT2), mRNA
5866	15772	25892	16.4	1.0E-106		NT	Homo sapiens xylosyltransferase II (XT2), mRNA
							ae72e07.s1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:969732 3' similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
6361	16224	26385	5.59	1.0E-106	AA663779.1	EST_HUMAN	Homo sapiens XPMC2 protein (LOC57109), mRNA
6390	16252	26412	4.83	1.0E-106		NT	601105736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988345 5'
6431	16292	26453	1.35	1.0E-106	BE292722.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA
6490	16348	26517	7.6	1.0E-106		NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
6490	16348	26518	7.6	1.0E-106		NT	Homo sapiens sorting nexin 11 (SNX11), mRNA
6657	16537	26733	5.33	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
6657	16537	26734	5.33	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3948463 5'
							ar68a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233 CALGRANULIN B (HUMAN);
6754	16633	26821	1.48	1.0E-106	AI523066.1	EST_HUMAN	ty62a05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN
7052	16929	27120	3.16	1.0E-106	AI654123.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
7281	17158	27353	1.86	1.0E-106	AA825307.1	EST_HUMAN	oc67e08.s1 NCI_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:1354790 3'
7281	17158	27354	1.86	1.0E-106	AA825307.1	EST_HUMAN	oc67e08.s1 NCI_CGAP_GOB1 Homo sapiens cDNA clone IMAGE:1354790 3'
							cn03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn03a04 random
7351	17219	27419	2.79	1.0E-106	AI750447.1	EST_HUMAN	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3
7424	17291	27501	1.86	1.0E-106	AI479569.1	EST_HUMAN	TAR1 PTR5 repetitive element;
							tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.t3
7424	17291	27502	1.86	1.0E-106	AI479569.1	EST_HUMAN	TAR1 PTR5 repetitive element;
7803	17653	27890	1.32	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
7803	17653	27891	1.32	1.0E-106	BF027310.1	EST_HUMAN	601671674F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954403 5'
7880	17730	27975	5.83	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:1130395 3'
7880	17730	27976	5.83	1.0E-106	AA604417.1	EST_HUMAN	np57b10.s1 NCI_CGAP_B2 Homo sapiens cDNA clone IMAGE:1130395 3'

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7901	17751	27990	1.86	1.0E-106	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-at1 CT0318 Homo sapiens cDNA
8019	17869	28113	3.66	1.0E-106	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
8269	18149	28389	5.21	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5'
8269	18149	28390	5.21	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3857366 5'
8415	18289	28544	2.28	1.0E-106	J05200.1	NT	Human ryanodine receptor mRNA, complete cds
8415	18289	28545	2.28	1.0E-106	J05200.1	NT	Human ryanodine receptor mRNA, complete cds
9122	19540		2.87	1.0E-106	AW410405.1	EST_HUMAN	fh05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961644 5'
9342	19022	25298	2.31	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
9342	19022	25299	2.31	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
9554	19162		5.35	1.0E-106	BE995905.1	EST_HUMAN	RC1-CT0249-090800-024-d05 CT0249 Homo sapiens cDNA
234	10203		3.48	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
264	10229		1.05	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
606	10542		1.07	1.0E-107	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
614	10550	20361	1.7	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
796	10725	20565	0.86	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
868	10794	20644	1.16	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
953	10877	20724	10.67	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1257	11164	21015	0.78	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1551	11456	21314	2.13	1.0E-107	BF087405.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
1718	11619	21488	1.47	1.0E-107	AF136275.1	NT	Homo sapiens cathepsin Z precursor (CTSZ) gene, exon 3
1797	11695	21571	0.95	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1797	11695	21572	0.95	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2161	12048	21949	1.26	1.0E-107	U13729.1	NT	Homo sapiens dipeptidyl peptidase IV (CD26) gene, exon 20
2487	12362	22257	0.86	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2487	12362	22258	0.86	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2976	12903	22701	1.94	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2976	12903	22702	1.94	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3081	12988	22779	2.62	1.0E-107	5902097	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3754	13667	23450	3.92	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
5575	15490	25667	3.26	1.0E-107	BE867469.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6356	16219	26380	1.52	1.0E-107	AW503913.1	EST_HUMAN	UI-HF-BN0-aif-c-08-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
6356	16219	26381	1.52	1.0E-107	AW503913.1	EST_HUMAN	UI-HF-BN0-aif-c-08-0-UI.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
6445	16306	26471	1.63	1.0E-107	A1765078.1	EST_HUMAN	wh56h04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384791 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8087	17978	28228	2.73	1.0E-107	A392850.1	EST_HUMAN	ig10006.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICD1
8316	18193	28443	1.82	1.0E-107	L49141.1	NT	P05095 ALPHA-ACTININ 3, NON MUSCULAR ;
8327	18204	28453	1.98	1.0E-107	BF66651.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
8638	18503	28779	9.12	1.0E-107	BE540550.1	EST_HUMAN	602123963F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
8697	17881	28122	4.21	1.0E-107	11419701	NT	60106688F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452829 5'
8697	17881	28123	4.21	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
9187	19673		3.94	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens HSPC049 protein (HSPC049), mRNA
939	10864	20711	1.46	1.0E-108	BE286042.1	EST_HUMAN	ze45e01.s1 Soares retina N2b4-HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1
1244	11151	20999	1.55	1.0E-108	Y18000.1	NT	THR repetitive element ;
2282	12166	22063	7.41	1.0E-108	AI686040.1	EST_HUMAN	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632348 5'
2282	12166	22064	7.41	1.0E-108	AI686040.1	EST_HUMAN	Homo sapiens NF2 gene
							tf91e10.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
							tf91e10.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE
							PROTEOGLYCAN II PRECURSOR (HUMAN);
2378	12258	22150	7.2	1.0E-108	BE206694.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to gb:X53777 60S
3305	13226	23028	0.94	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);
3305	13226	23029	0.94	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
3742	13654	23437	0.92	1.0E-108	5453855	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4065	13967	23744	1.33	1.0E-108	AW664438.1	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCM1) mRNA
4425	14320	24106	1.99	1.0E-108	U72961.1	NT	hi12a11.x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2972060 3' similar to SW:3BP1_MOUSE
4425	14320	24107	1.99	1.0E-108	U72961.1	NT	P65194 SH3-BINDING PROTEIN 3BP-1 ;
4699	14885	24376	2.85	1.0E-108	7661979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4868	14748	24528	2.19	1.0E-108	AJ008005.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
5366	15286	25120	1.53	1.0E-108	AW384094.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5393	15312	25166	2.77	1.0E-108	BE869016.1	EST_HUMAN	Homo sapiens PSN1 gene, alternative transcript
5393	15312	25167	2.77	1.0E-108	BE869016.1	EST_HUMAN	RC00-HT0372-241199-031-d03 HT0372 Homo sapiens cDNA
							601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
							601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
							Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
5732	15640	25745	5.06	1.0E-108	AF264717.1	NT	cds
5732	15640	25746	5.06	1.0E-108	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5789	15695	25804	1.37	1.0E-108	AJ133269.1	NT	Homo sapiens cavedin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6247	16113	26265	5.35	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
6399	16260	26421	3.34	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
6698	16578		1.93	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8202	15099	24891	2.77	1.0E-108	Y12490.1	NT	Homo sapiens mRNA for Golgi-associated microtubule-binding protein (GMAP-210)
8593	18461	28731	4.26	1.0E-108	AW966185.1	EST_HUMAN	EST378258 MAGE resequences, MAGI Homo sapiens cDNA
8677	18565		2.03	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
8706	12166	22063	4.14	1.0E-108	A1686040.1	EST_HUMAN	t91e10.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
8706	12166	22064	4.14	1.0E-108	A1686040.1	EST_HUMAN	t91e10.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2248938 3' similar to gb:M14219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
9357	19030	25303	2.79	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
9736	19270		5.59	1.0E-108	BF346356.1	EST_HUMAN	80201857F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4154297 5'
58	10044	19856	0.9	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
212	10183	19997	0.92	1.0E-109	11422486	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
222	10192	20003	1.51	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
459	10403	20219	3.64	1.0E-109	4507712	NT	Homo sapiens tetrapeptide repeat domain 2 (TTC2), mRNA
583	10521	20328	14.84	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
583	10521	20329	14.64	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1184	11095	20941	9.63	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1), mRNA, complete cds
1185	11095	20941	4.89	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1), mRNA, complete cds
1831	11728	21602	1.48	1.0E-109	D13643.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2194	12081	21985	2.03	1.0E-109	AL103284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2204	12091	21993	1.97	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2581	12452	22344	3.88	1.0E-109	A1022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN. ;
2581	12452	22345	3.88	1.0E-109	A1022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN. ;
2582	12453	22346	2.75	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A), mRNA
3020	12948	22740	1.88	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3342	13262	23088	1.45	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-F10 NN0009 Homo sapiens cDNA
3342	13262	23089	1.45	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-F10 NN0009 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3474	13390	23195	1.2	1.0E-109	AF240698.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3767	13680		1.53	1.0E-109	BE146144.1	EST_HUMAN	MRO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
3911	13821	23601	1.54	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
3911	13821	23602	1.54	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
4054	13956	23732	3.67	1.0E-109	AI655417.1	EST_HUMAN	ts98e06.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP:F53A2.8 CE16100 ;
4070	13972	23749	1.02	1.0E-109	AA662274.1	EST_HUMAN	nu93c12.s1 NCL_CGAP_P22 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN P30712 GLUTATHIONE S-TRANSFERASE THETA 2 ;
4070	13972	23750	1.02	1.0E-109	AA662274.1	EST_HUMAN	nu93c12.s1 NCL_CGAP_P22 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN P30712 GLUTATHIONE S-TRANSFERASE THETA 2 ;
4304	14202	23986	2.25	1.0E-109	4504206	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
4496	14390	24175	1.19	1.0E-109	7662083	NT	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
4839	14720	24503	1.04	1.0E-109	RI15400.1	EST_HUMAN	ye49e06.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53057 5'
4984	14859	24626	0.86	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2989636 5'
4984	14859	24627	0.86	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2989636 5'
5254	15176	24950	2.31	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5648	15364		1.48	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-404 HT0615 Homo sapiens cDNA
6465	16325	26491	3.66	1.0E-109	11432574	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
6466	16326	26492	5.01	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
6466	16326	26493	5.01	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
6753	16632	26820	1.36	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
6820	16699	26892	1.23	1.0E-109	AW749130.1	EST_HUMAN	PM0-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
7030	16907		1.72	1.0E-109	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
7071	16948	27139	5.71	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
7071	16948	27140	5.71	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
7326	17202	27402	2	1.0E-109	H84890.1	EST_HUMAN	ys90g08.r1 Soares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP:A53491 A53491 BUMETANIDE-SENSITIVE NA-K-C1 COTRANSPORTER - SPINNY ;
7462	17322	27528	1.41	1.0E-109	F06604.1	EST_HUMAN	HSCIEC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
8155	18043	28294	2.93	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
8155	18043	28295	2.93	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
8183	18069	28318	14.2	1.0E-109	BF694831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
8335	18212	28464	2.12	1.0E-109	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
8335	18212	28465	2.12	1.0E-109	7662279	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
8468	18341	28606	1.88	1.0E-109	AU121370.1	EST_HUMAN	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002890 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8676	18564	28848	2.19	1.0E-109	4502838	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
8710	18527	28810	4.83	1.0E-109	W16510.1	EST_HUMAN	z08h12.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to
9259	12091	21993	1.65	1.0E-109	Y17123.1	NT	PIR:S43969 S43969 p54-beta stress-activated protein kinases - rat;
9594	19176	25275	2.8	1.0E-109	AB011399.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
3	9990	19781	1.48	1.0E-110	7549804	NT	Homo sapiens gene for AF-6, complete cds
34	10021	19817	3.88	1.0E-110	5803073	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
34	10021	19818	3.88	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
75	10059	19876	30.63	1.0E-110	C04498.1	EST_HUMAN	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
104	9990	19781	1.67	1.0E-110	7549804	NT	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH3C3467
291	10255	20076	0.91	1.0E-110	D87291.1	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
516	10458	20269	1.16	1.0E-110	U84550.1	NT	Human mRNA for inward rectifier potassium channel, complete cds
1163	11076	20921	1.09	1.0E-110	5031620	NT	Human dystrobrevin (DTN) gene, exon 20
1258	11165	21016	1.01	1.0E-110	AB032253.1	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1879	11775	21650	1.5	1.0E-110	BE379477.1	EST_HUMAN	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
2012	11904		1.86	1.0E-110	BF508996.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609663 5'
2810	12739		1.02	1.0E-110	4503098	NT	UI-H-B14-aos-b-05-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
3048	12975		1.07	1.0E-110	U78027.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3158	13083	22885	1.87	1.0E-110	11436041	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
3158	13083	22886	1.87	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3966	13873	23650	0.92	1.0E-110	BE018556.1	EST_HUMAN	Homo sapiens pregnancy-zone protein (PZP), mRNA
4533	14426	24207	2.06	1.0E-110	AI017213.1	EST_HUMAN	Homo sapiens pregnancy-zone protein (PZP), mRNA
4555	14447	24232	2.08	1.0E-110	AU117812.1	EST_HUMAN	bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:O60312 O60312 KIAA0566 PROTEIN ;
4898	14778		2.34	1.0E-110	7662441	NT	ou32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to
5237	15161	24929	1.9	1.0E-110	BE299406.1	EST_HUMAN	SW:N121_RAT_P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
5511	15429	25492	7.34	1.0E-110	11419323	NT	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
5511	15429	25493	7.34	1.0E-110	11419323	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
6032	19458	26088	4.36	1.0E-110	M55112.1	NT	601118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
6391	16253	26413	10.04	1.0E-110	AV714276.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6391	16253	26414	10.04	1.0E-110	AV714276.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6409	16270	26432	2.7	1.0E-110	AB020675.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
							AV714276 DCB Homo sapiens cDNA clone DCB0GE01 5'
							AV714276 DCB Homo sapiens cDNA clone DCB0GE01 5'
							Homo sapiens mRNA for KIAA0868 protein, partial cds

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7523	17374	27583	2.91	1.0E-110	AW838394.1	EST_HUMAN	QV2.LT0053-020400-119-e04 LT0053 Homo sapiens cDNA
7915	17765	28004	4.27	1.0E-110	11432732	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
8130	18018	28266	3.7	1.0E-110	Y12337.1	NT	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
8334	18211	28462	3.49	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
8334	18211	28463	3.49	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
8740	17889	28133	2.43	1.0E-110	AA446529.1	EST_HUMAN	zw67g02.r1 Soares_NHT Homo sapiens cDNA clone IMAGE:781298 5' similar to TR:G1145816
9081	18857		4.15	1.0E-110	BE897218.1	EST_HUMAN	G1145816 FKBP54;
9204	18935		5.78	1.0E-110	AW062258.1	EST_HUMAN	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
9444	19080		1.63	1.0E-110	AB011399.1	NT	IL0-BT0163-040899-094-g10 BT0163 Homo sapiens cDNA
9578	19684		5.07	1.0E-110	BF364546.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
168	10140		16.85	1.0E-111	U43701.1	NT	PM3-NN1082-140900-006-f12 NN1082 Homo sapiens cDNA
189	10161	19978	1.02	1.0E-111	4758907	NT	Human ribosomal protein L23a mRNA, complete cds
718	10650		1.87	1.0E-111	BF035327.1	EST_HUMAN	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
726	10658	20489	3.58	1.0E-111	89303092	NT	601458531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862086 5'
911	10835	20684	73.62	1.0E-111	M25142.1	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
3642	13556	23342	1.17	1.0E-111	6912641	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
3642	13556	23343	1.17	1.0E-111	6912641	NT	Homo sapiens sex comb on midleg homolog 1 (SCMH1), mRNA
4080	13982	23760	1.08	1.0E-111	7661669	NT	Homo sapiens sex comb on midleg homolog 1 (SCMH1), mRNA
4235	14133	23909	4.45	1.0E-111	K02268.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
5364	15284	25117	2.82	1.0E-111	AA151017.1	EST_HUMAN	Human enkephalin B (enkb) gene, exon 4 and 3' flank and complete cds
5364	15284	25118	2.82	1.0E-111	AA151017.1	EST_HUMAN	z147b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
5675	15584	25685	1.71	1.0E-111	AI344679.1	EST_HUMAN	z147b07.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:505045 5' similar to gb:M23575 PREGNANCY-SPECIFIC BETA-1 GLYCOPROTEIN C PRECURSOR (HUMAN);
6402	16263	26423	3.03	1.0E-111	BF366228.1	EST_HUMAN	qp09g12.x1 NCL_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M29893 RAS-RELATED PROTEIN RAL-A (HUMAN);
6579	16437	26622	2.29	1.0E-111	AA133914.1	EST_HUMAN	IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
6795	16674	26866	3.13	1.0E-111	U66533.1	NT	z162c12.r1 Striatagene muscle 937209 Homo sapiens cDNA clone IMAGE:562774 5' similar to gb:X03740 MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
7113	16990		10.8	1.0E-111	BF214902.1	EST_HUMAN	Human beta4-integrin (ITGB4) gene, exon 13
7149	17026	27221	13.75	1.0E-111	X17033.1	NT	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
7149	17026	27222	13.75	1.0E-111	X17033.1	NT	Human mRNA for integrin alpha-2 subunit
7251	17128	27321	3.26	1.0E-111	AF091395.1	NT	Human mRNA for integrin alpha-2 subunit
							Homo sapiens Trio isoform mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7840	17690	27935	1.51	1.0E-111	AA504160.1	EST_HUMAN	aa58g02.st1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:L09235
7893	17743	27986	6.35	1.0E-111	AA131248.1	EST_HUMAN	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
8401	18277	28529	4.52	1.0E-111	U68159.1	NT	z131f01.r1 Soares_pregnant uterus_NHPU Homo sapiens cDNA clone IMAGE:503545 5'
9038	18825	29110	3.04	1.0E-111	11417901	NT	Human thrombopoietin receptor (MPL) gene, exons 1,2,3,4,5 and 6
9686	19489	25130	1.69	1.0E-111	W22862.1	EST_HUMAN	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
9959	19422	25171	1.39	1.0E-111	11430460	NT	72C9 Human retina cDNA Tsp509I-cleaved sublibrary Homo sapiens cDNA not directional
9959	19422	25172	1.39	1.0E-111	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
592	10528	20335	2.66	1.0E-112	4501854	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
594	10530	20337	4.49	1.0E-112	U29103.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
594	10530	20338	4.49	1.0E-112	U29103.1	NT	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
616	10552	20363	1.48	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
616	10552	20364	1.48	1.0E-112	BF509039.1	EST_HUMAN	UI-H-B14-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
985	10908	20753	2.78	1.0E-112	AF157623.1	NT	UI-H-B14-act-g-04-0-J1.s1 NCL_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
1046	10964	20805	1.72	1.0E-112	P52742	SWISSPROT	Homo sapiens HTRA serine protease (PRSS1) gene, complete cds
1658	11560	21424	5.88	1.0E-112	7662125	NT	ZINC FINGER PROTEIN 135
1658	11560	21425	5.88	1.0E-112	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2460	12337	22231	2.45	1.0E-112	BE866859.1	EST_HUMAN	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3809	13721	23510	0.83	1.0E-112	BE076073.1	EST_HUMAN	6017442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848858 5'
4646	14533	24321	5.12	1.0E-112	AB037832.1	NT	MR2-BT0590-090300-113-409 BT0590 Homo sapiens cDNA
4646	14533	24322	5.12	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5170	15036	24804	0.94	1.0E-112	9055269	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5477	15397	25463	33.34	1.0E-112	N46046.1	EST_HUMAN	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI), mRNA
6340	16203	26364	1.81	1.0E-112	11416777	NT	y35d07.r1 Soares_melanocyte 2N1bHM Homo sapiens cDNA clone IMAGE:273229 5'
6340	16203	26365	1.81	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
6766	16646	26834	1.65	1.0E-112	AU118051.1	EST_HUMAN	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7181	17058	27247	2.25	1.0E-112	BE867635.1	EST_HUMAN	AJ118051 HEMBA1 Homo sapiens cDNA clone HEMBA1002773 5'
7181	17058	27248	2.25	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
7993	17543	27767	2.09	1.0E-112	BF111413.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
8159	18047	28299	4.25	1.0E-112	AW863327.1	EST_HUMAN	7130g07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to
8318	18195	28445	2.86	1.0E-112	AJ249900.1	NT	TR-Q9VW35 Q9VW35 CG8743 PROTEIN. ;
							MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA
							Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8445	18319	28578	1.72	1.0E-112	BE280479.1	EST_HUMAN	601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138989 5'
8500	18373	28637	1.75	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES ;
8500	18373	28638	1.75	1.0E-112	AI792603.1	EST_HUMAN	qk24c08.y5 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362 FUSED TOES ;
8521	18393	28657	5	1.0E-112	AW377670.1	EST_HUMAN	PMO-CT0237-141099-001-h02 CT0237 Homo sapiens cDNA
725	10657	20487	3.71	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
725	10657	20488	3.71	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
927	10852	20700	6.32	1.0E-113	M11965.1	NT	Human X-linked phosphoglycerate kinase gene, exon 8
1523	11428	21286	2.94	1.0E-113	AI365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
2048	11939	21833	1.18	1.0E-113	BF515218.1	EST_HUMAN	UHH-BW1-ant-f-03-0-UJ.st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
2405	12282	22179	0.96	1.0E-113	AJ006976.1	NT	Homo sapiens PLP gene
3091	13018	22813	2.34	1.0E-113	AJ223948.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5035	14907	24677	0.95	1.0E-113	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
5035	14907	24678	0.95	1.0E-113	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
5211	19524		16.27	1.0E-113	BE780858.1	EST_HUMAN	601469465F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:3872536 5'
5377	15297	25144	6.33	1.0E-113	AU127214.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
5608	15523	25605	3.92	1.0E-113	AU140291.1	EST_HUMAN	AU140291 PLACE2 Homo sapiens cDNA clone PLACE2000274 5'
5699	15608	25710	2.05	1.0E-113	11525737	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8 (GALNAc-T8) (GALNT8), mRNA
7257	17134	27326	2.95	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
7257	17134	27327	2.95	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
7656	17506	27731	1.29	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
8466	18339	28604	1.73	1.0E-113	AW500519.1	EST_HUMAN	UI-HF-BN0-akj-b-12-0-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
8550	15719	25832	2.07	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
8550	15719	25833	2.07	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
8584	18462	28721	3.44	1.0E-113	BE292968.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
629	10566	20379	7.66	1.0E-114	T70551.1	EST_HUMAN	yd15c01.s1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1055	10972	20815	1.31	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1291	11198	21053	3.47	1.0E-114	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1648	11552	21413	5.53	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2773	10025	19823	0.82	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2773	10025	19824	0.82	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3092	13019	22814	2.29	1.0E-114	X04086.1	NT	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3135	13060	22859	1.2	1.0E-114	BF208374.1	EST_HUMAN	601869832F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3934	13843	23621	1.95	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
5120	14988	24762	1.2	1.0E-114	AA194468.1	EST_HUMAN	zq05e05.r1 Stratagene muscle 837209 Homo sapiens cDNA clone IMAGE:628832 5' similar to contains
5121	14989	24763	2.31	1.0E-114	AF004849.1	NT	MER22 t3 MER22 repetitive element ;
5316	15237	25040	1.37	1.0E-114	4506880	NT	Homo sapiens PKY protein kinase mRNA, complete cds
5316	15237	25041	1.37	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5316	15237	25041	1.37	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
6316	16179	26338	7.08	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
6316	16179	26339	7.08	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
6606	16486	26673	1.86	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
6748	16627	26814	1.73	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
6748	16627	26815	1.73	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
7048	16925	27116	3.39	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
7090	16967	27161	6.35	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
7090	16967	27162	6.35	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
7418	17285		3.79	1.0E-114	AW327455.1	EST_HUMAN	qq03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
7447	16459	26652	3.13	1.0E-114	AF077754.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
7844	17694	27940	1.31	1.0E-114	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
8167	18055		7.14	1.0E-114	BE302666.1	EST_HUMAN	ba73g12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2906086 5' similar to gb:U17206 40S
8527	18399	28666	4.58	1.0E-114	AV733454.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
8527	18399	28667	4.58	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cdA Homo sapiens cDNA clone cdABA08 5'
8834	18647	28932	2.86	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cdA Homo sapiens cDNA clone cdABA08 5'
8834	18647	28933	2.86	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cdA Homo sapiens cDNA clone cdABA08 5'
9479	19748		3.21	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG-12-1 (CG12-1), mRNA
9729	19266	25222	3.06	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
9729	19266	25223	3.06	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
21	10008	19801	3.36	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
125	10099	19920	0.95	1.0E-115	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220kD) (POLR2A) mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
129	10103		1.99	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
289	10263	20073	2.17	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA
525	10467	20278	1.08	1.0E-115	AI339206.1	EST_HUMAN	q06f01.x1 NCL CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00536 O00536 TTF-I INTERACTING PEPTIDE 5;
525	10467	20279	1.08	1.0E-115	AI339206.1	EST_HUMAN	q06f01.x1 NCL CGAP GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00536 O00536 TTF-I INTERACTING PEPTIDE 5;
769	10699	20537	1.83	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
769	10699	20538	1.83	1.0E-115	5174702	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
771	10701	20540	49.82	1.0E-115	4503794	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1539	11443	21301	0.92	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1539	11443	21302	0.92	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1785	11683	21561	3.14	1.0E-115	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
1798	11696	21573	1.42	1.0E-115	U76027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2034	11925	21817	0.87	1.0E-115	BE745469.1	EST_HUMAN	601579838F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928832 5'
2034	11925	21818	0.87	1.0E-115	BE745469.1	EST_HUMAN	601579838F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3928832 5'
2820	12749		1.76	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-b08 UM0094 Homo sapiens cDNA
3077	13004	22795	2.1	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3077	13004	22796	2.1	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3427	13344	23149	4.03	1.0E-115	AJ277892.1	NT	Homo sapiens partial TTN gene for titin
3966	13864	23640	4.04	1.0E-115	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4189	14069	23844	1.09	1.0E-115	AL137163.1	NT	Novel human gene mapping to chromosome X
4301	14199	23983	3.41	1.0E-115	6912659	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4335	14232	24014	3.83	1.0E-115	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4578	14468	24254	2.58	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4578	14468	24255	2.58	1.0E-115	AL098857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4813	14696	24482	2.96	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4813	14696	24483	2.96	1.0E-115	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
5279	15201	24877	1.75	1.0E-115	AW970335.1	EST_HUMAN	EST382416 IMAGE resequences, MAGK Homo sapiens cDNA
5330	15250	25055	7.22	1.0E-115	BF665387.1	EST_HUMAN	602119346F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5402	15321	25369	2.05	1.0E-115	11426128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5402	15321	25370	2.05	1.0E-115	11426128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5852	15758	25876	12.92	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63436), mRNA
5933	15838	25960	1.93	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product, Helicase (KIAA0054), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5933	15838	25961	1.93	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
6313	16176	26333	1.55	1.0E-115	A1076598.1	EST_HUMAN	oz31a06.x1 Soares_totat_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
6313	16176	26334	1.55	1.0E-115	A1076598.1	EST_HUMAN	oz31a06.x1 Soares_totat_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
6379	16241	26401	7.41	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
6744	16623	26811	12.78	1.0E-115	BE830187.1	EST_HUMAN	RC6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
6744	16623	26812	12.78	1.0E-115	BE830187.1	EST_HUMAN	RC6-ET0081-130700-011-G01 ET0081 Homo sapiens cDNA
7116	16993	27184	2.2	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
7745	17595	27816	1.92	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
7745	17595	27817	1.92	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
8100	17990	28239	3.5	1.0E-115	AW571544.1	EST_HUMAN	xx3208.x1 NCI_CGAP_Utr Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA
8701	18519	28801	2.26	1.0E-115	4502528	NT	P10463 CALYCPHOSINE ;
560	10500	20306	1.42	1.0E-116	BE275502.1	EST_HUMAN	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
783	10713	20552	1.25	1.0E-116	4507334	NT	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
841	10768	21733	6.89	1.0E-116	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
1952	11847	21733	2.38	1.0E-116	5174478	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
1952	11847	21734	2.38	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
1980	11873	21765	1.21	1.0E-116	AU133080.1	EST_HUMAN	Homo sapiens pericentrin (PCNT) mRNA
2050	12711	21834	1.01	1.0E-116	M19824.1	NT	AU133080 NT2RP4 Homo sapiens cDNA clone NT2RP4001228 5'
2050	12711	21835	1.01	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2259	12143	22042	1.88	1.0E-116	5453941	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2293	12175		1.49	1.0E-116	U78308.1	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2407	12284	22181	4.48	1.0E-116	AB018333.1	NT	Human olfactory receptor pseudo_olfr17-01 (OR17-01) pseudogene, complete cds
2704	12656	22458	2.19	1.0E-116	BE889256.1	EST_HUMAN	Homo sapiens mRNA for KIAA0790 protein, partial cds
3137	13062	22860	4.73	1.0E-116	L77570.1	NT	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3137	13062	22861	4.73	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4281	14180	23958	2.01	1.0E-116	5031954	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4747	14632	24418	2.17	1.0E-116	A1907096.1	EST_HUMAN	Homo sapiens sodium phosphate transporter 3 (NPT3) mRNA
5122	14990	24764	1.2	1.0E-116	AJ243213.1	NT	PM-BT135-070499-016 BT135 Homo sapiens cDNA
						NT	Homo sapiens partial 5-HT4 receptor gene, exons 2 to 5
5637	15550	25641	5.88	1.0E-116	W42822.1	EST_HUMAN	zc24d07.r1 Soares_senescent_fibroblasts NbHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
5768	15675	25781	1.65	1.0E-116	AB046856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5768	15675	25782	1.65	1.0E-116	AB046886.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
5853	15759	25877	72.79	1.0E-116	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
5924	15829		1.8	1.0E-116	BE158133.1	EST_HUMAN	MR2-HT0379-210200-102-b04 HT0379 Homo sapiens cDNA
6145	16018	26156	3.59	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH00567
6275	16139	26295	7.97	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCB8CG06 5'
6674	16753	26949	1.99	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
6874	16753	26950	1.99	1.0E-116	AA354256.1	EST_HUMAN	EST62885 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
7173	17050	27239	1.43	1.0E-116	BE565507.1	EST_HUMAN	601336288F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
7260	17137	27330	1.98	1.0E-116	A1216352.1	EST_HUMAN	q09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gb:X53741.maf1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
7577	17428	27642	1.77	1.0E-116	11418646	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
8074	17965	28216	3.68	1.0E-116	BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-e06 CT0482 Homo sapiens cDNA
8477	18350	28615	3.23	1.0E-116	A1367140.1	EST_HUMAN	qq41e04.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1935102 3' similar to WP:B0495.7 CE01765;
9591	19741		2.08	1.0E-116	BE258599.1	EST_HUMAN	601108350F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3344580 5'
9776	19814		2.68	1.0E-116	AL134889.1	EST_HUMAN	DKFZp762L1110_r1 762 (synonym: hme2) Homo sapiens cDNA clone DKFZp762L1110 5'
546	10487	20296	1.18	1.0E-117	4826836	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1061	12684	20821	1.59	1.0E-117	AF124393.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1719	11820	21439	6.25	1.0E-117	AF123320.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
1790	11688	21564	2.3	1.0E-117	M19816.1	NT	Human apolipoprotein B-100 (apoB) gene, exon 10
2164	12051	21952	2.99	1.0E-117	AW957699.1	EST_HUMAN	EST369769 MAG resequences, MAG Homo sapiens cDNA
3230	13154	22953	1.75	1.0E-117	AA978114.1	EST_HUMAN	op32c1.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
3908	13818	23599	3.62	1.0E-117	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4247	14146	23920	1.86	1.0E-117	8659564	NT	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4475	14369	24158	1.88	1.0E-117	AL042120.1	EST_HUMAN	DKFZp434C120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C120 5'
4622	14510	24299	1.35	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4622	14510	24300	1.35	1.0E-117	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
4705	14591	24382	9.22	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4705	14591	24383	9.22	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4856	14736	24516	3.36	1.0E-117	AB020673.1	NT	Homo sapiens mRNA for KIAA0866 protein, complete cds
5280	15202	24978	2.5	1.0E-117	BE730508.1	EST_HUMAN	601562657F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5'
6404	16265	26426	4.99	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
6404	16265	26427	4.99	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6455	16316	26482	3.77	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
6455	16316	26483	3.77	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
6651	16531	26725	5.93	1.0E-117	AI950145.1	EST_HUMAN	wp86607.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2468629 3' similar to TR:O75065
6837	16716	26908	1.7	1.0E-117	10834989	NT	O75065 KIAA0477 PROTEIN.;
6837	16716	26909	1.7	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
7361	17228	27428	2.28	1.0E-117	D16524.1	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
7635	17486	27706	1.51	1.0E-117	BE733922.1	EST_HUMAN	Human gene for very low density lipoprotein receptor, exon 11
8385	18262	28612	10.31	1.0E-117	W80605.1	EST_HUMAN	601599317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
8595	18462	28732	3.96	1.0E-117	AB011541.1	NT	z883b11.1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:347229 5' similar to gb:MI4219 BONE PROTEOGLYCAN II PRECURSOR (HUMAN);
8595	18462	28733	3.96	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
8698	18516		15.63	1.0E-117	BE269856.1	EST_HUMAN	Homo sapiens mRNA for MEGF8, partial cds
8872	18684	28974	2.22	1.0E-117	4501848	NT	601186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544296 5'
8872	18684	28975	2.22	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
64	10050	19863	9.54	1.0E-118	AF161500.1	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
90	10074	19890	2.59	1.0E-118	AL045854.1	EST_HUMAN	Homo sapiens HSPC151 mRNA, complete cds
506	10448	20261	5.09	1.0E-118	7657016	NT	DKFZp434I056_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434I056 5'
896	12680	20667	0.98	1.0E-118	5174680	NT	Homo sapiens hypothetical protein (DJ328E19.C1.1), mRNA
2186	12073	21975	2.39	1.0E-118	BE389705.1	EST_HUMAN	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2186	12073	21976	2.39	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2186	12073	21977	2.39	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2281	12165		3.77	1.0E-118	AW951729.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2711	12574	22465	2.38	1.0E-118	U07000.1	NT	EST363799 IMAGE resequences, MAGB Homo sapiens cDNA
2711	12574	22466	2.38	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3066	12993		3.73	1.0E-118	Y13932.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3159	13084	22887	4.51	1.0E-118	AI347694.1	EST_HUMAN	Homo sapiens PRKX exon 7
3159	13084	22888	4.51	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3998	13904	23679	7.67	1.0E-118	D23660.1	NT	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
5329	15249	25053	2.02	1.0E-118	AF142624.1	NT	Human mRNA for ribosomal protein, complete cds
5329	15249	25054	2.02	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5620	15535	25620	1.88	1.0E-118	11420764	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
6020	15924	26054	1.87	1.0E-118	4557732	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6020	15924	26055	1.87	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6482	16341	26509	4.13	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
6648	16528	26722	2.23	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5'
6884	16763	26960	7.81	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
6884	16763	26961	7.81	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
6888	16767	26963	1.34	1.0E-118	AA443024.1	EST_HUMAN	z88d07.r1 Soares_NihMIPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
6888	16767	26964	1.34	1.0E-118	AA443024.1	EST_HUMAN	z88d07.r1 Soares_NihMIPu_S1 Homo sapiens cDNA clone IMAGE:811789 5'
7035	16912	27100	1.16	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
7035	16912	27101	1.16	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
7062	16939	27129	1.28	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
7062	16939	27130	1.28	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
7223	17100	27288	5.71	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
7936	17786	28027	1.18	1.0E-118	BF195407.1	EST_HUMAN	7n17e09.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;
8598	18485	28737	3.06	1.0E-118	AA315007.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
8847	18659	28947	1.75	1.0E-118	BF093687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
8847	18659	28948	1.75	1.0E-118	BF093687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	10672	20508	0.81	1.0E-119	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
1021	12683	20781	1.55	1.0E-119	7705607	NT	Homo sapiens GGI-105 protein (LOC51011), mRNA
1891	11786	21663	2.09	1.0E-119	AB023147.1	NT	Homo sapiens mRNA for KIAA0930 protein, partial cds
3084	12991	22783	1.81	1.0E-119	8922205	NT	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3202	13126		1.08	1.0E-119	AA918760.1	EST_HUMAN	on10b05.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:E04F6.2 CE01214 ;
3870	13781	23573	1.15	1.0E-119	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5111	14979	24753	0.95	1.0E-119	AA077394.1	EST_HUMAN	7B14F03 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B14F03
5272	15194	24969	2.45	1.0E-119	AU133399.1	EST_HUMAN	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001991 5'
5282	15204	24980	14.93	1.0E-119	M89914.1	NT	Human neurofibromin (NF1) gene, complete cds
5285	15207	24984	3.32	1.0E-119	BE936121.1	EST_HUMAN	RC1-NN0073-250800-018-g06 NN0073 Homo sapiens cDNA
5336	15256	25079	2.24	1.0E-119	AV693731.1	EST_HUMAN	AV693731 GKC Homo sapiens cDNA clone GKCDHB03 5'
5726	15633	25736	7.19	1.0E-119	AI150703.1	EST_HUMAN	qb77c09.x1 Soares_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10 ;
5887	15793	25914	2.79	1.0E-119	X06292.1	NT	Human c-fes/fps proto-oncogene
5895	15801	25925	4.26	1.0E-119	AW974193.1	EST_HUMAN	EST386296 IMAGE resequences, MAGM Homo sapiens cDNA
6381	16243	26403	1.42	1.0E-119	BE796614.1	EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'

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7883	17733	27977	1.48	1.0E-119	AA465124.1	EST_HUMAN	aa3205.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
7998	17848	28089	1.42	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
8535	18407		9.72	1.0E-119	BF569571.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
9348	19671		1.37	1.0E-119	AW847519.1	EST_HUMAN	RC3-CT0212-240999-011-f03 CT0212 Homo sapiens cDNA
237	10205	20022	1.4	1.0E-120	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
298	10262	20082	1.34	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
1025	10943	20787	1.67	1.0E-120	AF248540.1	NT	Homo sapiens intersecitin 2 (SH3D1B) mRNA, complete cds
1025	10943	20788	1.67	1.0E-120	AF248540.1	NT	Homo sapiens intersecitin 2 (SH3D1B) mRNA, complete cds
1406	11311	21172	4.53	1.0E-120	N44873.1	EST_HUMAN	yy40g12.r1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:273768 5'
1583	11487	21348	3.87	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
2060	11950	21847	0.9	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2060	11950	21848	0.9	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2482	12358	22250	0.84	1.0E-120	4758124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3267	10292	20082	1.13	1.0E-120	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
4260	14189	23936	1.17	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4260	14159	23937	1.17	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4563	14455	24242	2.79	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
4563	14455	24243	2.79	1.0E-120	AF098463.1	NT	Homo sapiens stannocalcin (STC) gene, partial cds
5168	15034	24801	0.89	1.0E-120	A190903.1	EST_HUMAN	qd61f03.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
5508	15426	25488	13.84	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5508	15426	25489	13.84	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6469	16328	26495	1.49	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
6608	16488	26674	1.67	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
6608	16488	26675	1.67	1.0E-120	Y00067.1	NT	Human gene for neurofilament subunit M (NF-M)
6850	16729	26924	2.44	1.0E-120	BF337599.1	EST_HUMAN	60203552F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4183333 5'
6858	16777	26971	2.43	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
6898	16777	26972	2.43	1.0E-120	AB007964.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
6922	16800	26993	1.33	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
7470	17330	27535	4.54	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
7470	17330	27536	4.54	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625544 5'
7617	17488	27687	4.72	1.0E-120	BF306541.1	EST_HUMAN	601888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
7626	17477	27698	7.31	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
7798	17648	27885	2.53	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
8469	18342	28607	6.4	1.0E-120	BE296387.1	EST_HUMAN	60117672F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532015 5'

Table 4

Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8914	18722	29013	2.07	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
9495	19111	25288	1.36	1.0E-120	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
67	10052	19867	1.04	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
374	10328	20151	0.98	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
707	12674	20465	1.23	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1556	11461	21319	0.99	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1923	11818	21697	0.89	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
1923	11818	21698	0.89	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate-4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
2055	11945	21841	1.17	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
2530	12404	22295	1.05	1.0E-121	BF344378.1	EST_HUMAN	602014759F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150286 5'
2530	12404	22296	1.05	1.0E-121	BF344378.1	EST_HUMAN	602014759F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4150286 5'
3042	12969	22763	3.09	1.0E-121	Y19208.1	NT	Homo sapiens HHB3 gene for hair keratin, exons 1 to 9
3042	12969	22764	3.09	1.0E-121	Y19208.1	NT	Homo sapiens HHB3 gene for hair keratin, exons 1 to 9
3492	13408	23213	1.09	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3492	13408	23214	1.09	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3624	13538	23325	6.61	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds
4236	14134	23910	1.21	1.0E-121	AI263294.1	EST_HUMAN	qx57b01.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4901	14781	24556	2.55	1.0E-121	X91937.1	NT	H. sapiens ECE-1 gene (exon 17)
5050	14922	24695	1.03	1.0E-121	AI904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
6632	16512	26701	2.58	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
6632	16512	26702	2.58	1.0E-121	D84122.1	NT	Homo sapiens DNA for prostacyclin synthase, exon 8
8157	18045	28297	4.44	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
8163	18051	28303	2.28	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
8336	18213	28466	4.91	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
8363	18240	28489	3.48	1.0E-121	N59624.1	EST_HUMAN	yy74c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:248448 3'
267	10232	20047	3.99	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
333	10292	20107	2.22	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
355	10312	20132	1.54	1.0E-122	11526176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
864	10790	20841	2.85	1.0E-122	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1201	11111	20957	3.41	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)

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Single Exon Probes Expressed in Heart

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1667	11569	21435	1.32	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1684	11586	21458	2.01	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1684	11586	21459	2.01	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1772	11671	21549	5.91	1.0E-122	BE906024.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3899368 5'
2441	12318	22215	10.56	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
2441	12318	22216	10.56	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4125234 5'
4738	14623	24409	1.82	1.0E-122	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4918	14797		1.2	1.0E-122	AW504645.1	EST_HUMAN	U1-HF-BND-all-a-03-Q-U1r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
6051	15337	25390	6.41	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7219	17096	27286	1.35	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9098	18669		4.35	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
181	10153	19908	1.07	1.0E-123	U31519.1	NT	Human phosphoenolpyruvate carboxykinase (PCK1) gene, promoter region and partial cds
751	10881	20517	1.72	1.0E-123	BF345274.1	EST_HUMAN	602018035F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4153670 5'
751	10881	20518	1.72	1.0E-123	BF345274.1	EST_HUMAN	602018035F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4153670 5'
996	10916	20760	3.79	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1005	10923	20767	5.06	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1218	11126	20976	3.35	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1218	11126	20977	3.35	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1439	11344	21211	1.76	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2052	11942	21837	2.98	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2052	11942	21838	2.98	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2052	11942	21839	2.98	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2267	12151		4.5	1.0E-123	7705962	NT	Homo sapiens RAB3-like protein (LOC51209), mRNA
5344	15265	25091	1.75	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5344	15265	25092	1.75	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5425	15346	25400	1.29	1.0E-123	BE799746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
5893	15799	25923	2.27	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone IMAGE:1003591 5'
6186	16071	26221	1.3	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
6509	16368	26545	1.95	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509162 5'
7392	17310	27517	4.14	1.0E-123	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds